Engineering, Design, Computing, Architecture and Planning
QS Graduate Employability Rankings 2022

#1 in Queensland for graduate employability
QS Graduate Employability Rankings 2022

3 Campuses
6 Faculties
56,000+ students from more than 140 countries

UQ acknowledges the Traditional Owners and their custodianship of the lands on which UQ is situated.
— Reconciliation at UQ
#1 university in Australia in the prestigious Nature index

More national teaching awards than any other Australian university

100% carbon neutral
Why study with us?

Engineering
As one of the most comprehensive engineering degrees in Australia, UQ’s Bachelor of Engineering (Honours) will put you at the forefront of established and emerging engineering disciplines. This industry-relevant, hands-on and dynamic program provides a strong foundation in mathematics, science and engineering design, empowering you to meet the demands of the future. As a UQ-qualified engineer, you will have gained the critical skills and knowledge to develop practical solutions that impact the world we live in.

Architecture and Design
As a progressive School of Architecture, we provide a balanced creative and practical education that prepares you for a successful career as an architect and designer. You’ll have opportunities to study overseas and learn from international architects; get hands-on practical experience using 3D printers, robots and VR; gain industry experience in the best architectural practices; work on real projects with real clients; and develop skills in design for local and global contexts.

Computing
You’ll graduate job-ready to launch into an exciting career in areas such as cyber security, data science, information technology, machine learning, programming and user experience design, with some of the world’s biggest corporations. To ensure you graduate with the most current and relevant skills, our programs are developed in consultation with industry leaders via an Industry Advisory Board. You’ll be prepared to respond to the constant change that occurs in industry and understand the many facets of computing.

Regional and Town Planning
Learn from some of Australia’s best, in a program that is recognised by employers as delivering high-quality graduates. You will receive a balance of theoretical knowledge and practical experience, from small-scale projects to comprehensive development schemes. With many of Queensland’s planning firms led by UQ graduates, it’s no surprise that UQ’s Bachelor of Regional and Town Planning is recognised as one of the leading planning programs, and a popular choice for those seeking a challenging and rewarding career.
Contents

Why study with us? 2

Engineering
Engineering at UQ 4
Bachelor of Engineering (Honours) 6
Bachelor of Engineering (Honours) / Master of Engineering 6
Chemical Engineering 10
Civil Engineering 12
Electrical Engineering 14
Mechanical Engineering 16
Mechatronic Engineering 18
Software Engineering 20

Career opportunities in Engineering 22
Dual degrees 24
Alternative pathways 26
Andrew N. Liveris Academy for Innovation and Leadership 27
Facilities 28
UQ’s Women in Engineering program 30

Computing
Your Computer Science degree 32
Bachelor of Computer Science 34
UQ vertical dual degrees 37

Information Technology
Your Information Technology degree 38
Bachelor of Information Technology 40
Employability 42

Architecture
Your life in Architecture 44
Bachelor of Architectural Design 46
How will you learn? 50
What you can do with a Bachelor of Architectural Design 51

Design
Your life in Design 52
Bachelor of Design 54

Planning
Your place in Urban Planning 56
Bachelor of Regional and Town Planning 58

Career ready 60
Apply for a scholarship 62
Are you an international student? 64
A truly global network 65
Applying to UQ 66
Plan your finances 67
Program table explained 68
Study options 69

Getting you employed is our top priority
UQ is the best in Queensland for graduate employability*
*QS Graduate Employability Rankings 2022

Work anywhere in the world
Our qualifications are recognised internationally, allowing graduates to work anywhere in the world

$1 million worth of scholarships and prizes awarded annually

Top 2 in Australia for Chemical Engineering*
*QS World University Rankings by Subject 2021

Top 100 in the world for Architecture/ Built Environment courses*
*QS World University Rankings by Subject 2021

Top 2

Top 100

Getting you employed is our top priority
UQ is the best in Queensland for graduate employability*
*QS Graduate Employability Rankings 2022

Work anywhere in the world
Our qualifications are recognised internationally, allowing graduates to work anywhere in the world

$1 million worth of scholarships and prizes awarded annually

Top 2
in Australia for Chemical Engineering*
*QS World University Rankings by Subject 2021

Top 100
in the world for Architecture/ Built Environment courses*
*QS World University Rankings by Subject 2021

Getting you employed is our top priority
UQ is the best in Queensland for graduate employability*
*QS Graduate Employability Rankings 2022

Work anywhere in the world
Our qualifications are recognised internationally, allowing graduates to work anywhere in the world

$1 million worth of scholarships and prizes awarded annually

Top 2
in Australia for Chemical Engineering*
*QS World University Rankings by Subject 2021

Top 100
in the world for Architecture/ Built Environment courses*
*QS World University Rankings by Subject 2021
Engineeering at UQ

Bachelor of Engineering (Honours)

Intellectual boldness? Technological proficiency? The power to solve society’s challenges and create a better world? Study engineering at UQ and you’ll graduate with all these qualities, with the skills to use them in a career as remarkable as you are.

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>UQ CODE</th>
<th>MINIMUM SELECTION THRESHOLD 2022</th>
<th>LOWEST ATAR TO RECEIVE AN OFFER 2022</th>
<th>DURATION</th>
<th>START SEMESTER</th>
<th>CAMPUS</th>
<th>HONOURS</th>
<th>DUAL PROGRAM AVAILABLE</th>
<th>ADMISSION REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>777001</td>
<td>2455</td>
<td>86.00 / 31</td>
<td>86.05 / 82.75</td>
<td>4 years</td>
<td>1, 2</td>
<td>St Lucia</td>
<td></td>
<td>Arts, Biotechnology, Business Management, Commerce, Computer Science, Design, Economics, Information Technology, Mathematics, Science</td>
<td>Old Year 12 (or equivalent) General English subject (Units 3 &amp; 4, C); Mathematical Methods (Units 3 &amp; 4, C); and one of Chemistry or Physics (Units 3 &amp; 4, C). Students studying Specialist Mathematics (Units 3 &amp; 4, C) and both Physics and Chemistry will have increased flexibility in their studies.</td>
</tr>
</tbody>
</table>

What will you study

The Bachelor of Engineering (Honours) prepares you for a career addressing some of the key challenges of the 21st century, such as water resources, infrastructure and communication, food and health services supply, and sustainable energy development. We’ve crafted a curriculum with industry experiences throughout your degree and more study options for greater career opportunities, so you’re prepared for the jobs of the future. In the Bachelor of Engineering (Honours) you’ll develop technical skills through a core specialisation, which will form the basis of your career. You also have the opportunity to complement your engineering specialisation with a major in one of the new and emerging areas of engineering. Our broad range of majors allows you to further tailor your studies to match your career aspirations and deep dive into your interests.

Flexible first year

You will study foundation courses introducing you to the way professional engineers think and work, combined with engineering practice courses involving engineering design, physical prototyping and modelling – each incorporating different engineering disciplines.

Choose a specialisation

Choose a specialisation and study courses specific to your career aspirations. There are six specialisations to choose from.

Consolidate your study + choose a major

This is where you consolidate your learning in your chosen major to match your individual career goals. This is a great time to undertake an exchange semester to broaden your knowledge and networks studyabroad.uq.edu.au

Apply your skills

Get ready for the workforce by applying the skills you’ve learnt throughout your degree to an industry-related or research project.
A degree that fits your ambition

Whether it’s about adapting to new trends and innovations, or moving seamlessly across sectors, we’re offering an education that gives you flexibility – no matter what you choose to do.

With a greater selection of courses, we’re preparing you for the jobs of the future. You have the opportunity to complement your undergraduate engineering specialisation with a major or minor in one of the new and emerging areas of engineering. You’ll gain technical expertise, and sharpen your critical thinking and research skills to find answers to pressing questions.
Bachelor of Engineering (Honours)/Master of Engineering

Combine your undergraduate and postgraduate studies together in one unique integrated degree to open more opportunities for your career.

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>UQ CODE</th>
<th>MINIMUM SELECTION THRESHOLD 2022 ATAR / IB</th>
<th>LOWEST ATAR TO RECEIVE AN OFFER 2022 ADJUSTED</th>
<th>UNADJUSTED</th>
<th>DURATION</th>
<th>START SEMESTER</th>
<th>CAMPUS</th>
<th>HONOURS</th>
<th>ADMISSION REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>717111</td>
<td>2550</td>
<td>97.00 / 39</td>
<td>97.00</td>
<td>92.20</td>
<td>5 years full-time (or part-time equivalent)</td>
<td>1, 2</td>
<td>St. Lucia</td>
<td>Part of standard program, awarded based on weighted grade point average</td>
<td>Old Year 12 (or equivalent) General English subject (Units 3 &amp; 4, C), Mathematical Methods (Units 3 &amp; 4, C), and one of Chemistry or Physics (Units 3 &amp; 4, C). Students studying Specialist Mathematics (Units 3 &amp; 4, C) and both Physics and Chemistry will have increased flexibility in their studies.</td>
</tr>
</tbody>
</table>

See ‘Program table explained’ on page 68

What you will study

Develop the skills and knowledge you need to get a head start in an engineering career that requires specialist skills and adaptability, or to give you the edge when applying for a higher degree by research. This 5-year program is designed to give you an overall education in engineering as well as specialist knowledge in fields such as civil or software engineering. You’ll graduate job-ready with a comprehensive knowledge of engineering and a range of practical skills.

You’ll undertake a full-time placement with industry or a research institution either in Australia or overseas, and complete advanced coursework and project work in your final year.

You’ll also undertake a supervised master’s thesis on a relevant topic and be involved with all aspects of research, including defining a research question, establishing a methodology and reporting on your findings.

Fourth-year students have the opportunity to study overseas with the European Double Degree program. This allows you to learn from some of the best engineering and technical teachers in the world, and graduate with an additional master’s degree from one of our partner universities.

European Double Degree

Take your study overseas and get both a UQ and European master’s degree.

As part of the Bachelor of Engineering (Honours) / Master of Engineering program, you have an exciting opportunity to study at one of our premier European partners and to graduate with two master’s degrees – one from our partner university, as well as the integrated Bachelor/Master degree from UQ.

Where can you study?

Technical University of Munich (TUM)
Location: Munich, Germany

Lund University
Location: Lund, Sweden

CentraleSupéléc (CS)
Location: Paris-Saclay, France

Politecnico di Milano (POLIMI)
Location: Milan, Italy

FIELDS OF STUDY

The Bachelor of Engineering (Honours)/Master of Engineering fields of study include:
- Chemical Engineering
- Chemical and Biomedical Engineering
- Chemical and Bioprocess Engineering
- Chemical and Environmental Engineering
- Chemical and Materials Engineering
- Chemical and Metallurgical Engineering
- Civil Engineering
- Civil and Environmental Engineering
- Electrical Engineering
- Electrical and Biomedical Engineering
- Electrical and Computer Engineering
- Mechanical Engineering
- Mechanical and Aerospace Engineering
- Mechanical and Materials Engineering
- Mechatronic Engineering
- Software Engineering
Flexible first year
You will study foundation courses introducing you to the way professional engineers think and work, combined with engineering practice courses involving engineering design, physical prototyping and modelling – each incorporating different engineering disciplines.

Choose an engineering field of study
Choose a study area and undertake courses specific to your career aspirations. There are 16 areas to choose from (refer to the table, left).

Consolidate your study
Consolidate your learning in your chosen study area to match your individual career goals. This is also a great time to undertake an exchange semester!
uq.edu.au/uqabroad

Master’s courses / industry placement
Undertake a semester-long industry or research placement.
Your interest and career ambitions will be the driving force behind what you choose to do.
Study advanced-level specialist courses in your discipline and gain exposure to the challenges of engineering.
Clubs and Societies

University isn’t just about hitting the books - we also have a huge range of extra-curricular activities to make sure you have the best fun at uni, while getting a world-class degree.

Getting involved in one of UQ Union’s 220+ clubs and societies will allow you to make new friends, expand your network and attend heaps of fun events. Clubs and societies can relate to your field of study as well as your interests and hobbies, such as dancing, the arts, social justice, politics, language and culture, and so much more. Making connections with your peers is important because one day they could be your future employers, interviewers, colleagues or industry connections.

For more information

Industry experiences throughout your degree

Contact with industry is embedded throughout the curriculum.

From your first semester, you will be hands-on in student labs, working on projects designed by professional engineers. Throughout your degree you will be supported by our Student Employability Team who can help you find that all-important graduate role. You will also have access to the latest industry-grade equipment at our makerspace – UQ Innovate – a place where you can collaborate and create in a friendly and supportive environment.

You’ll work in teams to design and prototype scalable solutions to real engineering problems across all disciplines. Whether it is an industry design project creating a process for producing biofuels, or hands-on design, build and test experiences for biomedical applications, we are preparing you for your future – whatever it might be.

By embedding these experiences throughout your degree, when you graduate, you’ll possess a distinct blend of creative and practical abilities. This will prepare you to deliver sustainable solutions that benefit communities all over the world.

Alan Kosinski, Bachelor of Engineering (Honours)/Master of Engineering student, on placement at Skyborne.
A career in engineering can be extremely rewarding, where you’ll be at the forefront of design, development and implementation.

At UQ, we will teach you the skills you’ll need to meet the world’s most complex challenges and engineer a better future for us all. We will empower you with the fearlessness and creativity to innovate where others fall short.

The demand for innovative and forward-thinking engineers has never been so great.

**Where can you go?**

ADVANCED MANUFACTURING
Be a part of a growing industry – think manufacturing of food and beverages, natural resources, plastics and automobiles.

BUILT ENVIRONMENT
Reimagine urban infrastructure, design smart sustainable buildings or focus on people and improve quality of life.

DIGITAL DESIGN + TECHNOLOGY
Hone your technological skills, master the digital, and prepare yourself for a lifetime of success in the digital design and technology space.

ENERGY
Tackle our world’s global energy challenges. Design new ways to harness and store energy for a sustainable future.

ENVIRONMENT
Gain a deeper understanding of our planet and how to protect, manage and maintain the delicate balance of life.

HEALTH
Join the exciting world of biomedical engineering and develop materials, devices and processes that improve and save lives.

RESOURCES
Through automation and sustainable processes, build the most environmentally friendly and productive resource sector we’ve ever seen.

SPACE
A career in space could be anything from designing and manufacturing aircrafts, satellites and drones, to developing more efficient rockets.

**Skills you need**

- Problem-solving
- Analytical thinking
- Creativity
- Critical thinking
- Innovation
- Communication
- Teamwork
Bachelor of Engineering (Honours) / Master of Engineering
Chemical Engineering

Chemical engineers play a critical role in transforming raw materials into useful products such as healthy foods, clean water, metals, medicines and sustainable energy.

Bachelor of Engineering (Honours) Chemical Engineering

UQ’s chemical engineering degree is based on industry-relevant majors and minors that provide depth and breadth to your learning. As a UQ chemical engineering student, you’ll develop critical skills and systems thinking coupled with engineering fundamentals to enable you to design and create a diverse range of products and processes to enhance the lives of others. You will develop the expertise and gain relevant experience to find employment in well-established petroleum and petrochemical organisations; environmental protection, management and safety industries; food processing and production; and in natural resource use and recovery industries, but also emerging and rapidly developing industries focused on renewable energy, the circular economy, biopharmaceutical and biotherapeutics, and other health-related endeavours.

From day one, you’ll experience hands on learning, and this will continue throughout your degree with industry field trips and placements, making you industry-ready.

Majors and Minors in the Chemical Engineering Specialisation

Bachelor of Engineering (Honours) / Master of Engineering
Chemical Engineering

If you want to lead your field, advance the boundaries of knowledge and develop high-level competence and expertise, the integrated Bachelor of Engineering (Honours) / Master of Engineering (BE(Hons)/ME) degree is for you.

This degree combines our undergraduate engineering program with master’s level coursework, research and a semester-long placement with an industry or research partner. These fields of study are designed to provide specialist knowledge of the various disciplines and place you closer to the leading edge of technology.

For more information
Visit future-students.uq.edu.au or scan the QR code
Chemical

Drawing on detailed process development, modelling, and systems thinking, chemical engineers apply new approaches and big picture thinking to reduce waste and energy consumption.

You will explore topics including energy and mass flows, safety and sustainability, and the possibilities of interconnected systems.

You will benefit from the insights and expertise of world-leading researchers and highly qualified academic staff.

With practical projects, guest lecturers from industry, and internships and placements with leading engineering companies, you will gain the knowledge, skills and industry connections needed to transition from university to the workplace.

Biomedical

Biomedical engineers create materials, devices and processes for better health outcomes. Applications include nanoparticles for precise delivery of medicines, bioprinted patient-specific tissues and organs, devices to detect and treat illnesses before they impact our health, and the large-scale manufacture of immune cells to fight cancer or cardiac cells to treat a broken heart.

Environmental

Environmental engineering enhances the resilience and sustainability of our natural ecosystems and the products and processes that support modern society. This requires integration of technical innovations, design and development with an understanding of natural systems. You will explore how to assess, measure and develop solutions for managing resources such as energy, water, building materials, food and waste sustainably.

Materials

Materials engineers create new materials and improve existing materials by making them more functional, sustainable and affordable. They also develop strategies for effective reuse and recycling of products as we work towards a circular economy.

You will learn how to design, select, and process materials to make valuable products. Your studies will explore a wide range of applications, from biomaterials and nanomaterials to 3D printing at scale.

Metallurgical

Metallurgical engineers play a vital role in developing, managing and improving the processes required to transform ore into metals and recycle metals into useful products. With a strong focus on efficiency and sustainability, these engineers are involved in the physical and chemical processing of metals from crushing, extraction and purification through to product development. In this major, you will study the modelling, design, and economics of resource industry processes.

What you can study:

For more information
Visit future-students.uq.edu.au
or scan the QR code

“In the future, chemical engineers are going to be crucial in the production of sustainable biofuels and clean fuels such as hydrogen, which is an area that I’m particularly interested in.”

Kailin Graham
Bachelor of Engineering (Honours) (Chemical and Environmental)
Fulbright Scholar @ MIT (M.S. Technology & Policy)
Center for Energy & Environmental Policy Research
AFR Top 100 Future Leader

Scan the QR code to hear more from Kailin
Bachelor of Engineering (Honours) Civil Engineering

Unleash your creative vision and gain the specialised skills you need to design and build a world that is beautiful, functional and sustainable.

Bachelor of Engineering (Honours) Civil Engineering

Civil engineers plan, design, construct and maintain infrastructure such as buildings, dams, airports, and transport networks. They protect and improve the natural environment while also meeting the changing needs of society.

From your first semester, you will work on projects designed by professional engineers. You’ll work in teams to design and prototype scalable solutions to real engineering problems and set the foundation to become a professional engineer. You’ll study a range of courses covering programming, mathematics, statics, and materials, with the flexibility to choose electives that prepare you for your specialisation.

The civil engineering specialisation enables you to develop technical skills, complemented with an understanding of how both the built and natural environments perform and adapt to environmental challenges such as climate change, natural disasters and future population needs.

Fields of study in Civil Engineering

Bachelor of Engineering (Honours) / Master of Engineering Civil Engineering

If you want to lead your field, advance the boundaries of knowledge and develop high-level competence and expertise, the integrated Bachelor of Engineering (Honours) / Master of Engineering (BE(Hons)/ME) degree is for you.

This degree combines our undergraduate engineering program with master’s level coursework, research and a semester-long placement with an industry or research partner. These fields of study are designed to provide specialist knowledge of the various disciplines and place you closer to the leading edge of technology.

For more information
Visit future-students.uq.edu.au or scan the QR code
What you can study:

**Civil**
You will gain technical skills in building materials, the design of structures, hydrology, geotechnical engineering, fire safety, marine and transport systems. This is complemented with an understanding of natural systems and the analysis techniques used to examine how both the built and natural environments perform and adapt to environmental challenges such as climate change and associated shifts in rainfall, wind, flooding and natural disasters as well as future population needs.

**Environmental**
Environmental engineering enhances the resilience and sustainability of our natural ecosystems and urban environments. This requires integration of technical innovations, design and development with an understanding of natural systems. You will explore how to assess, measure and develop solutions for managing resources such as energy, water, building materials, food and waste sustainably.

**General Civil**
Develop your fundamental knowledge of all sub-disciplines of civil engineering. This means you will be well-placed to solve and manage engineering problems across the natural and built environments, including building design, dams and flood protection systems, analysis and design of earth structures and foundations, transport system design and analysis, and pollution management.

**Geotechnical**
The understanding and prediction of the behaviour of soil and rock as earth materials is imperative for creating safe, sustainable and economical civil engineering solutions. Geotechnical engineers apply scientific principles and engineering methods for developing civil engineering infrastructure on the surface and within the ground including prediction, mitigation and prevention of geological hazards.

**Mining**
Civil engineers with specialist skills in mining engineering look at all phases of mining operations with a focus in geomechanics. From exploration and discovery, through feasibility, development, production, processing and marketing, to final land restoration and rehabilitation. Responsibility for the development and production phases of a mine requires a broad knowledge of all mining operations and skills in leadership and industrial relations.

**Structural**
Structural engineers must constantly evolve to anticipate the materials, environments, and technologies that will shape our future buildings. They use innovative materials and manufacturing methods to design efficient, adaptable, and sustainable building infrastructure. As this infrastructure must be resilient in the face of a changing environment, so structural engineers must also understand the future hazards and risks likely to arise, whether from cyclones, earthquakes, or other natural disasters.

**Transport**
Transport engineers work to make our everyday travel smarter and faster. They harness the power of big data analytics to learn more about how people travel around cities, and design new ways to shape their movement to reduce the density and congestion of our transport networks. This expanding information environment is also being harnessed by transport engineers to drive future mobility innovations, such as integration of autonomous and electric vehicles, and the use of predictive video analytics that can identify and prevent crashes.

**Water and Marine**
Coastal and hydraulic engineers design and protect our urban waterways, hydraulic structures, coastlines, and oceans. Advanced monitoring and modelling technologies allow them to predict and mitigate the risks of coastal flooding, land loss, and beach erosion.

---

“UQ has a well-structured first year that allows you to get a taste of different engineering disciplines. As a result of this for me, the move into the civil and then traffic field was made clear.”

**Casey Schackow**
Bachelor of Engineering (Honours) (Civil)  
Traffic Engineer, Cardno  
Fortitude Valley

Scan the QR code to hear more from Casey
Are you passionate about renewable energy? Do you want to discover new ways to generate power? Are you interested in building digital devices that transmit data across the world?

Bachelor of Engineering (Honours) Electrical Engineering

Electrical engineers work in exciting roles in health care, communications and power generation organisations. From the very start of your electrical engineering degree, you’ll be introduced to the way professional engineers think and work, combined with hands-on courses involving engineering design, physical prototyping and modelling. From there, you’ll develop technical skills through studying core electrical engineering courses, which will form the foundations of your career. You’ll also have the option to complement your specialisation with a major in biomedical or computer engineering, or minor in data science, design or computing. Depending on the major you choose, you’ll study courses in electrical and computer systems, biomedical instrumentation and medical imaging, gaining the skills and capabilities to succeed in a multitude of industries.

If you want to lead your field, advance the boundaries of knowledge and develop high-level competence and expertise, the integrated Bachelor of Engineering (Honours) / Master of Engineering (BE(Hons)/ME) degree is for you.

This degree combines our undergraduate engineering program with master’s level coursework, research and a semester-long placement with an industry or research partner. These fields of study are designed to provide specialist knowledge of the various disciplines and place you closer to the leading edge of technology.

For more information
Visit future-students.uq.edu.au or scan the QR code
What you can study:

**Electrical**

Within the electrical engineering discipline, you will learn to design and manage equipment used in industries such as telecommunications, electricity generation, renewable energy and healthcare applications. You will have the opportunity to investigate embedded systems that contribute to almost every sector of society. These systems include smartphones, electrical power and renewable energy to provide electricity for our daily use, medical imaging systems for improved health care, electrical appliances for homes, scientific instruments for laboratories, lasers for reliable high-speed communication, satellite systems for remote sensing of the environment, and reliable energy systems to power all of these.

With much of your studies being hands-on, you will leave university with highly regarded specialist technical skills. This flexible and transportable degree will open opportunities with major companies across the globe.

**Biomedical**

Biomedical engineers create materials, devices and processes for better health outcomes. They have revolutionised healthcare for entire populations with the invention of devices and machines such as pacemakers and ultrasounds. In fact, some may say that biomedical engineers are responsible for saving more lives than doctors.

Biomedical engineering combined with electrical engineering connects technology with medicine. This major incorporates all electrical engineering subjects with specialised coursework in the use of electronics in healthcare.

Your studies will include how to design, construct and maintain health-monitoring devices, and diagnostic systems such as magnetic resonance imaging (MRIs). You will explore the fundamentals of medical signal processing, such as how to analyse electroencephalograms (EEGs), and explore how biomedical devices operate. Students also learn how to interpret the electrical signals produced by these devices.

**Computer**

Do you want to create the next generation of iPads, laptops or PCs? Are you interested in building computers that control machinery, medical instruments, cars, whitegoods, robots, communications equipment and satellites?

Computer engineers design and manage computer-based systems, including any device that has a computer embedded in it. That is almost every device these days, ranging from smart watches to smart home devices, smart home appliances to network routers and conventional desktop and laptop computers, to the hundreds of computer chips that can be found in modern cars, and more that will be found in future self-driving cars.

This study area will equip you with the skills and knowledge you need to claim your place within a high-growth industry.

During your studies, you will gain skills in digital logic design, computer networks, embedded and desktop operating systems, microcontroller selection and programming, electronics, telecommunications and signal processing.

For more information
Visit future-students.uq.edu.au or scan the QR code

“Honestly, I chose UQ for the Women in Engineering program.

As engineering is offered at most universities, there are many options in Queensland and interstate that offer the same disciplines; however, I knew that by getting involved, I would be exposed to more opportunities and get the support I need to succeed.”

**Guneet Kaur**

Bachelor of Engineering (Honours) (Electrical and Biomedical) Technology Consultant Graduate, Deloitte, Brisbane

Scan the QR code to hear more from Guneet
Bachelor of Engineering (Honours)  
Mechanical Engineering

From planes, trains and automobiles through to artificial hearts, elevators and the world’s largest power stations, mechanical engineering involves anything and everything with moving parts.

Bachelor of Engineering (Honours)  
Mechanical Engineering

Mechanical engineering is the driving force behind many of the great technical achievements of our age and the innovations of our future. It involves the responsible development of products, processes and power, at scales ranging from nano to large and complex systems.

If you want to understand modern technology as well as the infrastructure on which our society is built, then you probably want to be an engineer. And, if you like physics and things that move, then you want to be a mechanical engineer.

Ranked number one for mechanical, aeronautical and manufacturing engineering in Queensland*, our degree delivers a solid grounding in the principles and practice of mechanical engineering. Our mechanical engineering degree will prepare you to engage in ethical approaches to engineering, with concern for society and the environment.

As a UQ mechanical engineering graduate, you’ll benefit from an education that enables you to make a real difference to the world while, at the same time, pursuing successful and rewarding careers.

*QS World University Rankings 2021

Bachelor of Engineering (Honours) / Master of Engineering  
Mechanical Engineering

If you want to lead your field, advance the boundaries of knowledge and develop high-level competence and expertise, the integrated Bachelor of Engineering (Honours) / Master of Engineering (BE(Hons)/ME) degree is for you.

This degree combines our undergraduate engineering program with master’s level coursework, research and a semester-long placement with an industry or research partner. These fields of study are designed to provide specialist knowledge of the various disciplines and place you closer to the leading edge of technology.

For more information
Visit future-students.uq.edu.au or scan the QR code
What you can study:

**Mechanical**
In this broad area of engineering, you will learn how to design, manufacture and control machines and engines ranging from power generators through to manufacturing systems. You’ll also have access to innovative technologies and our specialist workshop areas (including our race car workshop) where you can practise your new skills.

You will study air, heat and energy flows, and learn how to control and automate machines. Using your strong analytical skills, you will identify and develop solutions for all kinds of mechanical challenges, and gain an excellent understanding of how machines are used in everyday conveniences from refrigerators to sound production, roller-coasters and computers. You will develop expertise in creating precision machinery and apply the fundamentals of physics, chemistry, biology and technology to leverage the latest advances in cutting-edge nanotechnology.

**Aerospace**
Aerospace engineering is all about flight, whether that’s planes, helicopters or rockets. Mechanical engineers with a major in aerospace engineering design more fuel-efficient aircraft that cut emissions, design the fleets of satellites that power modern GPS technology, and create the next generation of spacecraft for missions to Mars and beyond. You will learn how to design and manufacture aircraft, and launch vehicles, satellites, drones, spacecraft and ground support facilities. This dynamic major incorporates industry-based project work to help ensure graduates futureproof their careers through the development of powerful industry connections and professional networks.

**Biomedical**
Biomedical engineers create materials, devices and processes for better health outcomes. Working in the biomedical industry, mechanical engineers change lives. They create better, more lifelike artificial limbs to improve quality of life for injured and disabled people. Pacemakers, artificial valves and even robotic surgical assistants are all the work of mechanical engineers, as are the running blades used at Paralympic events.

**Materials**
Materials engineers improve the way we do things. They assess mechanical processes and find ways to make them more efficient, safer, and deliver better quality. This means they directly affect almost every major mechanical industry in the world, from water supply and oil and gas through to pharmaceuticals and food manufacturing. You will learn how to select, process and develop materials to design and make products, and explore the impacts of temperature during processing, as well as the relationships between microstructures, mechanical properties, manufacturing and service performance.

**Mining**
As a mechanical engineer with expertise in mining engineering, you will help ensure our communities have the vital metals and minerals we need for the steel frames in our buildings through to the microprocessors in our laptops. In this major, you’ll cover the big-picture challenges facing the minerals, mining and resource industries. You’ll study the fundamentals of mining engineering as a major in mechanical engineering, giving you the foundational knowledge and more career opportunities in the resource sector.

**For more information**
Visit future-students.uq.edu.au or scan the QR code

“I’d always been interested in STEM fields, but never felt overly passionate about it in high school. After some research, I discovered UQ’s general first-year program. I loved the idea of combining innovation and creativity with science, and that I could flexibly sample different discipline areas.”

Isabelle Fleming
Bachelor of Engineering (Honours) (Mechanical)
Team Member at Mycelium

Scan the QR code to hear more from Isabelle
Bachelor of Engineering (Honours) 
Mechatronic Engineering

Are you ready for one of the most hands-on mechatronic degrees in Australia? Do you want to learn how to retrieve a submarine from the ocean floor or build an autonomous drone?

Bachelor of Engineering (Honours) 
Mechatronic Engineering

Mechatronic engineers are highly sought after for roles involving artificial intelligence systems, robotics, automated industrial machinery and avionics. You can find yourself working as a cyber security developer for IBM or roboticist developing interfaces for self-driving cars.

As one of the most hands-on mechatronic degrees in Australia, UQ’s mechatronic degree combines robotics with computer science to take artificial intelligence to the next level. Throughout your degree you will layer core engineering principles learnt in your first year, with technical knowledge and practical experiences gained in mechatronic engineering, to form the foundations of your career. You will also have the option to complement your specialisation with a major in computer or mining engineering, or minor in data science, design or computing.

Each year you’ll showcase your acquired capabilities and complete a hands-on, project-based subject as part of a student team. This will involve designing and building a system to solve a mechatronics task. Previous projects include a mini-rescue vehicle, autonomous drones and submarine recovery. You’ll also complete a robotics project in your third year of study.

Bachelor of Engineering (Honours) / Master of Engineering 
Mechatronic Engineering

If you want to lead your field, advance the boundaries of knowledge and develop high-level competence and expertise, the integrated Bachelor of Engineering (Honours) / Master of Engineering (BE(Hons)/ME) degree is for you.

This degree combines our undergraduate engineering program with master’s level coursework, research and a semester-long placement with an industry or research partner. These fields of study are designed to provide specialist knowledge of the various disciplines and place you closer to the leading edge of technology.

For more information 
Visit future-students.uq.edu.au 
or scan the QR code
What you can study:

**Mechatronic**
Are you ready for one of the most hands-on mechatronic degrees in Australia?
Do you want to learn how to retrieve a submarine from the ocean floor or build an autonomous drone?

Mechatronic engineering integrates design principles, mechatronic systems, theory, communication skills and ethics. Your studies will incorporate the dynamics and materials of mechanical engineering along with electrical elements such as circuit design.

You’ll explore concepts and practical applications in areas including artificial intelligence, signal and systems theory, and control theory. This knowledge will also be integrated with computer science as you learn how mechanical and electrical components work together.

**Computer**
Mechatronic engineers with a major in computer engineering design and manage computer-based systems, including any device that has a computer embedded in it. That is almost every device these days, ranging from smart watches to smart home devices, smart home appliances to network routers and conventional desktop and laptop computers, to the hundreds of computer chips that can be found in modern cars, and more that will be found in future self-driving cars.

This major will equip you with the skills and knowledge you need to claim your place in a high-growth industry. During your studies, you will gain skills in digital logic design, computer networks, embedded and desktop operating systems, microcontroller selection and programming, electronics, telecommunications and signal processing.

**Mining**
Mining is one of the most technologically advanced industries in Australia and the future of the resource sector is automation. In this major, you’ll explore concepts and practical applications in artificial intelligence, signal and system theory and control theory and how this is applied in the resources industry. You’ll learn how to design and manufacture industrial robots and smart machines that are aware of their surroundings and can make informed decisions, leading to safer and more productive jobs.

For more information
Visit future-students.uq.edu.au or scan the QR code

"After studying a coding subject in my first year, I started to consider software engineering (which had never occurred to me). After each new coding course, I was hooked, and decided to pursue programming. I eventually decided on Computer Science and Mechatronic Engineering to have the most flexibility, with a focus on software.

If I had to name my favourite memories, they would definitely be the events hosted by clubs and societies and being a part of the team that organised them. The community of club executives was one of the tightest I’ve been in since school."

**Tom Nugent**
Bachelor of Engineering (Honours) (Mechatronic) / Bachelor of Science (Computer Science) graduate and President, Engineering Undergraduate Society.
Backend Software Engineer, Canva, Sydney

Scan the QR code to hear more from Tom.
Bachelor of Engineering (Honours) Software Engineering

In a digital future, the opportunities for software are as limitless as the human imagination.

Bachelor of Engineering (Honours) Software Engineering

There are so many career options available to you with a degree in software engineering from UQ. As technology advances, programming is no longer restricted to IT or engineering firms alone, as most industries now require some form of software development. This allows for a lot of flexibility. From your first semester, you will work on common engineering projects designed by professional engineers. You’ll work in teams to design and prototype scalable solutions to real engineering problems and set the foundation to become a professional engineer. You’ll study a range of courses covering programming, mathematics, and electrical and information systems, with the flexibility to choose electives that prepare you for your specialisation.

As you progress throughout your degree you’ll explore the fundamentals of programming, software architecture, algorithms, and data structures. You’ll also have the opportunity to demonstrate your acquired knowledge and technical skills and work in a team to build a significant software-based system according to a client brief and deadline.

Majors and Minors in the Software Engineering Specialisation

Bachelor of Engineering (Honours) / Master of Engineering Software Engineering

If you want to lead your field, advance the boundaries of knowledge and develop high-level competence and expertise, the integrated Bachelor of Engineering (Honours) / Master of Engineering (BE(Hons)/ME) degree is for you.

For more information
Visit future-students.uq.edu.au or scan the QR code

Fields of study in Software Engineering

This degree combines our undergraduate engineering program with master’s level coursework, research and a semester-long placement with an industry or research partner. These fields of study are designed to provide specialist knowledge of the various disciplines and place you closer to the leading edge of technology.
Digital information is everywhere and has the capacity to revolutionise the way that we live.

What you can study:

**Computer**

Do you want to create the next generation of iPads, laptops or PCs? Are you interested in building computers that control machinery, medical instruments, cars, whitegoods, robots, communications equipment and satellites?

Software engineers with a major in computer engineering design and manage computer-based systems, including any device that has a computer embedded in it. That is almost every device these days, ranging from smart watches to smart home devices, smart home appliances to network routers and conventional desktop and laptop computers, to the hundreds of computer chips that can be found in modern cars, and more that will be found in future self-driving cars.

This major will equip you with the skills and knowledge you need to claim your place within a high-growth industry. During your studies, you will gain skills in digital logic design, computer networks, embedded and desktop operating systems, microcontroller selection and programming, electronics, telecommunications and signal processing.

**Software**

Software engineering focuses on designing high-quality computer software, and offers focused studies in computer programming, databases, web-based computing, cloud computing and cyber security. It also explores formal software engineering, including how to design programs and systems that are free from errors, reliable, safe, efficient and manageable.

You will learn how to use computers to provide solutions and deliver high-quality code on time that can be integrated into existing operating environments. You will also use the principles of computer design, engineering, management, psychology and sociology in small or large multinational companies.

**For more information**

Visit future-students.uq.edu.au or scan the QR code

“**There are so many options within software engineering. As technology advances, programming is no longer restricted to engineering firms alone as most industries now require some form of software engineering. This allows for a lot of flexibility.**”

**Jessica Rock**

Current student, Bachelor of Engineering (Honours) (Software)
Career opportunities in Engineering

Engineering the world’s future – today, tomorrow and beyond.

Engineering is a dynamic and broad occupation that spans many industries and sectors. No matter what specialisation you choose to study, you’ll be prepared for a global career solving tomorrow’s most complex challenges.

Advanced Manufacturing

Be part of a growing industry including food and beverage, medical products, recycling and clean energy, and space.

Specialisations and Major to get you there:
- Chemical Engineering
  - Biomedical / Bioprocess / Materials
- Mechanical Engineering
  - Biomedical / Materials
- Mechatronic Engineering
  - Computer
- Electrical Engineering
  - Computer / Biomedical

Built Environment

Looking to solve problems? This could be anything from protecting the planet to reimagining urban infrastructure, designing smart sustainable buildings or focusing on people and improving quality of life.

Specialisations and Major to get you there:
- Civil Engineering
  - Environmental
- General Civil / Geotechnical
  - Structural / Transport / Water + Marine

Digital Design + Technology

By encouraging your intellectual boldness, honing your technological skills, and bringing out your capacity to lead others, we’ll prepare you for a lifetime of success in the digital design and technologies space.

Specialisations and Major to get you there:
- Electrical Engineering
  - Computer
- Mechatronic Engineering
  - Computer
- Software Engineering
  - Computer

Energy

Tackle global energy challenges and drive sustainable change.

Specialisations and Major to get you there:
- Chemical Engineering
  - Environmental
- Electrical Engineering
  - Computer
- Mechatronic Engineering
  - Computer
- Software Engineering
  - Computer
By the time you graduate, you’ll possess a distinct blend of creative and practical abilities to make decisions grounded in sustainability.

**Specialisations and Major to get you there:**
- Chemical Engineering
- Bioprocess | Environmental
- Civil Engineering
- Environmental

A dynamic career in space could be anything from designing and manufacturing aircraft, satellites and drones, to developing more efficient and faster rockets.

**Specialisations and Major to get you there:**
- Electrical Engineering
- Biomedical
- Mechanical Engineering
- Biomedical
- Mechatronic Engineering
- Computer
- Software Engineering
- Computer

Join the exciting world of biomedical engineering and develop materials, devices and processes that improve and save people’s lives.

**Specialisations and Major to get you there:**
- Chemical Engineering
- Biomedical
- Electrical Engineering
- Biomedical
- Mechanical Engineering
- Biomedical
Dual degrees
Pursue your interests

Broaden your employment prospects and pursue your interests by studying two degrees at the same time.

As the world around you changes, new and fascinating career opportunities are created every day, and job roles increasingly combine multiple disciplines. A dual degree, also called a double degree, will equip you for this evolving job market. It also provides an opportunity for you to pursue your passions and interests.

Benefits of dual degree

Strike a balance
Why compromise? Get study/life balance by combining programs that cover career aspirations and topics you’re passionate about. Dual degree students appreciate the diversity of topics offered in their two different programs.

Twice as ready for the future
With career paths changing more than ever, a dual degree prepares you with a broad skillset to navigate the careers of the future.

23
dual degree combinations available

Dual Degrees with the Bachelor of Design

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>DURATION (YEARS)</th>
<th>MINIMUM SELECTION THRESHOLD 2022 ATAR / IB</th>
<th>LOWEST ATAR TO RECEIVE AN OFFER 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ADJUSTED</td>
<td>UNADJUSTED</td>
</tr>
<tr>
<td>Business Management / Design</td>
<td>709511</td>
<td>4</td>
<td>86.00 / 32</td>
</tr>
<tr>
<td>Engineering (Honours) / Design</td>
<td>71721</td>
<td>5.5</td>
<td>86.00 / 32</td>
</tr>
</tbody>
</table>

Dual Degree with the Bachelor of Computer Science

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>DURATION (YEARS)</th>
<th>MINIMUM SELECTION THRESHOLD 2022 ATAR / IB</th>
<th>LOWEST ATAR TO RECEIVE AN OFFER 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ADJUSTED</td>
<td>UNADJUSTED</td>
</tr>
<tr>
<td>Computer Science / Arts</td>
<td>733501</td>
<td>4</td>
<td>86.00 / 32</td>
</tr>
<tr>
<td>Computer Science / Business Management</td>
<td>733701</td>
<td>4</td>
<td>86.00 / 32</td>
</tr>
<tr>
<td>Computer Science / Commerce</td>
<td>733801</td>
<td>4</td>
<td>86.00 / 32</td>
</tr>
<tr>
<td>Computer Science / Master of Cyber Security</td>
<td>733411</td>
<td>4</td>
<td>97.00 / 39</td>
</tr>
<tr>
<td>Computer Science / Master of Data Science</td>
<td>733421</td>
<td>4</td>
<td>92.60</td>
</tr>
<tr>
<td>Computer Science / Laws (Honours)</td>
<td>733901</td>
<td>5</td>
<td>96.00 / 41</td>
</tr>
<tr>
<td>Computer Science / Science</td>
<td>733601</td>
<td>4</td>
<td>86.00 / 32</td>
</tr>
<tr>
<td>Engineering (Honours) / Computer Science</td>
<td>71721</td>
<td>5.5</td>
<td>86.00 / 32</td>
</tr>
<tr>
<td>Mathematics / Computer Science</td>
<td>714421</td>
<td>4</td>
<td>93.00 / 36</td>
</tr>
</tbody>
</table>
Dual Degrees with the Bachelor of Engineering (Honours)

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>DURATION (YEARS)</th>
<th>MINIMUM SELECTION THRESHOLD 2022 ATAR / IB</th>
<th>LOWEST ATAR TO RECEIVE AN OFFER 2022*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ADJUSTED</td>
<td>UNADJUSTED</td>
</tr>
<tr>
<td>Engineering (Honours) / Arts 717401</td>
<td>5.5</td>
<td>86.00 / 32</td>
<td>87.70</td>
</tr>
<tr>
<td>Engineering (Honours) / Biotechnology 717501</td>
<td>5.5</td>
<td>86.00 / 32</td>
<td>86.70</td>
</tr>
<tr>
<td>Engineering (Honours) / Business Management 717301</td>
<td>5.5</td>
<td>86.00 / 32</td>
<td>86.45</td>
</tr>
<tr>
<td>Engineering (Honours) / Commerce 717201</td>
<td>5.5</td>
<td>86.00 / 32</td>
<td>86.10</td>
</tr>
<tr>
<td>Engineering (Honours) / Computer Science 717721</td>
<td>5.5</td>
<td>86.00 / 32</td>
<td>86.45</td>
</tr>
<tr>
<td>Engineering (Honours) / Design 717721</td>
<td>5.5</td>
<td>86.00 / 32</td>
<td>86.70</td>
</tr>
<tr>
<td>Engineering (Honours) / Economics 717601</td>
<td>5.5</td>
<td>86.00 / 32</td>
<td>90.05</td>
</tr>
<tr>
<td>Engineering (Honours) / Information Technology 717701</td>
<td>5.5</td>
<td>86.00 / 32</td>
<td>87.60</td>
</tr>
<tr>
<td>Engineering (Honours) / Mathematics 717901</td>
<td>5</td>
<td>93.00 / 36</td>
<td>93.00</td>
</tr>
<tr>
<td>Engineering (Honours) / Science 717101</td>
<td>5</td>
<td>86.00 / 32</td>
<td>86.30</td>
</tr>
</tbody>
</table>

Dual Degrees with the Bachelor of Information Technology

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>DURATION (YEARS)</th>
<th>MINIMUM SELECTION THRESHOLD 2022 ATAR / IB</th>
<th>LOWEST ATAR TO RECEIVE AN OFFER 2022*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ADJUSTED</td>
<td>UNADJUSTED</td>
</tr>
<tr>
<td>Business Management / Information Technology 710401</td>
<td>4</td>
<td>86.00 / 32</td>
<td>90.20</td>
</tr>
<tr>
<td>Commerce / Information Technology 71621</td>
<td>4</td>
<td>86.00 / 32</td>
<td>88.20</td>
</tr>
<tr>
<td>Engineering (Honours) / Information Technology 717701</td>
<td>5.5</td>
<td>86.00 / 32</td>
<td>87.60</td>
</tr>
<tr>
<td>Information Technology / Arts 733201</td>
<td>4</td>
<td>86.00 / 32</td>
<td>89.25</td>
</tr>
<tr>
<td>Information Technology / Science 733301</td>
<td>4</td>
<td>86.00 / 32</td>
<td>86.80</td>
</tr>
</tbody>
</table>

* Minimum (adjusted) selection threshold 2022 is the minimum score that was considered for an offer of a place to all applicants.

* Lowest ATAR to receive an offer refers to all recent secondary students who were offered a place in 2022.
Alternative pathways
Bachelor of Engineering (Honours)

Didn’t get a high enough ATAR?

High school
Completed Mathematical Methods, and either Chemistry or Physics in high school, but didn’t get the required ATAR?

Bachelor of Science
Take Engineering academic advice in course selection. Achieve a GPA of 4.0 or higher in your first year.

Bachelor of Engineering (Honours)
Receive up to one year of credit towards the BE (Hons). Undertake core engineering courses in second year before realigning.

Year 1 at UQ
Year 2 at UQ

Don’t have the prerequisites?

High school
Haven’t completed Physics or Chemistry prerequisite courses for the BE(Hons)?
Completed Mathematical Methods?

Bachelor of Information Technology
Take Engineering academic advice in course selection. Complete prerequisite courses PHYS1171 or CHEM1090. Achieve a GPA of 4.0 or higher in your first year.

Bachelor of Engineering (Honours)
Receive up to one year of credit towards the BE (Hons). Undertake core engineering courses in second year before realigning.

Year 1 at UQ
Year 2 at UQ
Andrew N. Liveris Academy for Innovation and Leadership

Building a generation of effective and inspiring leaders with a mindset geared towards creating a sustainable future.

Mission
Current global challenges require sustained, rapid innovation on a broad scale, and the leadership to ensure implementation to effect societal change.

The Andrew N. Liveris Academy for Innovation and Leadership provides the environment and programs to deliver a pipeline of effective and creative leaders for the digital era with the capacity to contribute to a sustainable future.

At the heart of the Liveris Academy, is a deep commitment to inclusivity, impact, and courageous leadership.

The Academy will identify promising students with leadership potential and a passion for sustainability, help develop Liveris Scholars to become agile and courageous leaders, and equip them to discover and implement multidisciplinary solutions that address grand challenges in sustainability.

The Academy will offer a unique student experience including prestigious scholarships, structured leadership training, mentoring by visiting leaders, targeted professional practice placements, and a vibrant Liveris Scholar Alumni Network.

Become a Scholar
Scholarship applications are invited from outstanding students with the potential to lead the development solutions to some of the world’s most pressing sustainability challenges, with a mindset geared towards creating a sustainable future.

For information about the Liveris Scholarships and to submit an application, please visit scholarships.uq.edu.au

More information
T +61 7 3346 3883
E liverisacademy@uq.edu.au
W eait.uq.edu.au/andrew-n-liveris-academy
Facilities

Our learning facilities provide technologically rich, flexible and comfortable social learning spaces for you to congregate, share ideas, help each other and socialise. Below are just a few of the facilities in which we encourage you to think, explore and create.

**Laboratories**

Access our state-of-the-art facilities, learning spaces, design studios and laboratories designed to support and enhance your learning experience.

**Study Spaces**

With options ranging from formal library spaces to indoor pop-up and alfresco locations, there are plenty of dedicated study spots for you to make the most of your time at UQ. These dedicated spaces have been reserved for the purposes of individual study.

**Computer Labs**

Across the precinct, UQ has dedicated computer labs with 1:1 computer to occupant ratio. These computers have the latest software and programs required for your degree. Students can access labs 24/7 when they’re not in use for a class.

**Engineering Learning Centre**

The First Year Engineering Learning Centre is a multi-purpose space created to enhance the experience of first-year engineering students. This is your place to call home while on campus and where you can get help and advice about your studies.

**UQ Innovate**

UQ Innovate is a newly developed workshop facility where UQ students and staff can meet, collaborate and create in a friendly and supportive environment. You will have access to trade and academically qualified staff and the latest industry-grade equipment, from laser cutters and 3D printers to water jets.

**VR Learning Facility**

Powered by three high-powered digital projectors displaying onto an eight-metre semicircular wall, this simulation facility enables you to experience what it feels like to be on-site at a mine, a building site or a chemical-processing plant.
Andrew N. Liveris Building

In the heart of UQ’s Engineering and Computing Precinct at St Lucia stands the Andrew N. Liveris Building. At 11 storeys high, the building stands as the tallest building on UQ’s St Lucia campus, and is the new home for the School of Chemical Engineering. It’s a vibrant hub for industry and interdisciplinary collaboration to address global challenges in areas such as energy, water and sustainable manufacturing.

The Andrew N. Liveris Building supports researchers and students to address sustainability challenges facing our world and create positive change for developing populations.

The project has been realised thanks to a historic gift from Mr Andrew Liveris and Mrs Paula Liveris.
UQ’s Women in Engineering Program

Engineers are problem solvers, inventors, designers, builders and great thinkers. They create innovative solutions for the challenges facing society to improve the state of the world and make people’s lives safer and easier. To do this successfully, we need a new generation of diverse engineering graduates who can provide different elements to the solution. Therefore, the best engineering teams must be as diverse as the society they work in.

University-led and industry funded, the UQ Women in Engineering (WE) Program was created with an aim to improve gender balance at both tertiary and industry levels. The program is led by a team of staff and current UQ engineering students who inspire future students to consider engineering as a rewarding career, and foster growth and development of students commencing their engineering degrees at UQ.

The UQ Women in Engineering program:

- Educates high school students about engineering. You cannot be what you cannot see, therefore WE promotes the diverse and exciting career opportunities within engineering through school visits, campus tours and exciting workshops.
- Supports female students studying engineering by providing valuable mentoring and networking opportunities, from industry events to a simple coffee catch-up with one of our student leaders.
- Connects our female students and graduates with industry leaders for a smooth transition into the workforce.
- Partners with notable industry leaders and collaborates with tertiary institutions, working together to collectively increase female participation in engineering nationwide.

UQ is the university of choice for female students studying engineering in QLD, with 27.5 per cent commencing female enrolments into engineering programs in 2021, compared to a national average of 18 per cent*. Our dedicated Women in Engineering program is the catalyst for this success.

The Women in Engineering Program at UQ provides female engineering students with a sense of community and a platform to share new ideas, as well as providing opportunities to build important skills for academic and career success. We encourage all engineering students to join us at our events as we cater for an inclusive and diverse audience.

Women in Engineering support and encourage you throughout your time at UQ and beyond:

- First point of contact: If you are offered a place to commence Engineering at UQ, a WE Student Leader will call you to discuss any questions you might have – from studying engineering to student life on campus.
- Be welcomed from day one: WE host a Welcome Lunch event during Orientation Week for first-year female engineering students – meet other students in your cohort and get to know our WE Student Leader team.
- Become a leader: After first year, take the opportunity to apply to be a WE Student Leader and inspire the next generation through high school outreach activities and events.
- Industry connections: Our program is strongly supported by industry and we work with them to provide invaluable opportunities for students. You will have direct access to key employers, allowing you to expand your network and kickstart your career.

Did you know that UQ offers multiple scholarship opportunities? Some specifically for women in engineering! scholarships.uq.edu.au

Proudly supported by our program partners:

AngloAmerican

RioTinto

Would you like to know more?
we@eait.uq.edu.au
+ 61 7 3443 1654
eait.uq.edu.au/we
Facebook: UQWomeninEngineering
Instagram: womenin_engineering

Available on all leading podcast platforms:

UQ is the university of choice for women studying engineering in Queensland

Frances Wong (left) Bachelor of Engineering (Honours) Software) and Shalini Krishan, Bachelor of Engineering (Honours) (Software)
Professor Ryan Ko and students in the new Industry 4.0 TestLab.
Your Computer Science degree

The pace of change in digital technologies is extraordinary. Artificial intelligence, unprecedented computer power, the Internet of Things, big data, and automation will continue to increase and transform the way we work, the way we learn, and the jobs we do in the future. At UQ, you’ll gain the solid tech foundations and skills that industry demands to play a critical role in creating, developing, implementing and evaluating new systems and technology for use in our society.

Your journey as a computer science student

Whether you’re interested in data science, AI, programming or cyber security – UQ has a degree to meet your needs.
Interested in shaping the digital future? Gain the fundamental knowledge and practical skills to design, develop and analyse computer-based systems.

Bachelor of Computer Science

What you will study

Computers are an indispensable part of finance, energy, transport, health and communications. Considering the widespread use of computers, it’s so easy to take them for granted. However, have you ever wondered how computer systems work so well? How can Google Maps load quickly even on a slow network? How do computers control your phones and cars? How can surgical devices reduce tremor in surgeons? The Bachelor of Computer Science is a three-year program designed to provide you with a deeper understanding of all aspects of computer technology. As part of the program, you will combine theory with hands-on experience to learn how to create and analyse computer-based systems. You will develop strong analytical, logical, and development skills necessary to advance computing, its applications and beyond.

As part of the program, you can specialise in cyber security, data science, machine learning, programming languages, or scientific computing.
Areas you can specialise in:

Cyber Security

As computers become increasingly interconnected and support more services than ever before, securing these systems becomes more challenging yet more crucial than ever. By studying cyber security, you will learn the fundamental processes and practices to protect computing systems – be it smartphones, engine control units of your car, computers or servers – from attack, damage or unauthorised access. You will study secure programming techniques and ethical hacking, to safeguard individuals, businesses and governments against cybercrime.

Data Science

Our world is recording more data than we have the ability to process, which presents enormous challenges associated with storage, management and analysis of data. Learn comprehensive and fundamental techniques for end-to-end processing that transforms data into information, and become one of the new breed of data science professionals.

Machine Learning

Machine learning is the study of algorithms that automatically improve performance with experience. Such algorithms allow computers to automatically identify and harness useful data to help decision-making, find hidden insights without being explicitly programmed in where to look, predict outcomes of certain policies to help authorities design effective policies, and many more. This is a massive growth area as society looks for automated and continuous improvements on ways to enhance business and our lives through the use of computing systems and data.

Programming Languages

Programming languages are the building blocks of software in computer science. Covering the different paradigms of programming, this area of study focuses on the design of computer languages that can be easily used to create programs. You will study the craft and science of programming, which will enable the construction of effective programming languages as well as correct and reliable software.

Scientific Computing

You will study algorithms for mathematical analysis. All scientific endeavours, from biology and chemistry to pharmaceutical research, rely on such analysis. Computers hold the key to fast and efficient analysis of complex scientific problems. However, computers are digital systems, requiring discrete inputs and outputs, while mathematical analysis often relies on continuous functions. Therefore, careful approximations are necessary to enable computers to analyse complex mathematical functions used in various scientific endeavours, including in hospitals and university medical research, as well as big pharmaceutical and petrochemical companies across the public and private sectors.

300% growth in the Australian cyber security sector predicted by 2026.*

17,000 – number of additional cyber security workers needed in Australia by 2026.*

*Source: AustCyber

Other pathways into a career in computing

Bachelor of Science (Computer Science)

Advances in many areas of modern science are increasingly driven by computing. Including computing studies within the Bachelor of Science allows you to expand your career opportunities for a scientific career and gives you a very flexible degree program where you can tailor your studies to your individual needs and select courses from science, information technology and other disciplines across the University.

Search ‘Computer Science’ at future-students.uq.edu.au

For more information
Visit future-students.uq.edu.au or scan the QR code
“For me it was not clear cut as to what I wanted to do at university after high school. I knew I was creative, and having dabbled in software like Photoshop, I showed a light interest in design. So, when I saw a degree that offered web and graphic design subjects, I decided to take a leap and undertake a degree in Information Technology.

I feel that I am lucky that I selected a degree based on my interest in design as it turned out to be a degree I truly loved, which endless opportunities and career paths.”

Madeleine Kingsley
Bachelor of Information Technology
UX/UI Designer (User Interface/User Experience), Virgin, Brisbane
Gain a **bachelor’s and master’s in four years** with a UQ vertical dual degree

Pursue your passions, broaden your skillset and increase your employment opportunities with a vertical dual degree in computer science.

UQ’s vertical dual degrees enable students to gain a bachelor’s and master’s degree in four years - instead of five.

With a Commonwealth supported place** throughout the program, students will study the Bachelor of Computer Science before commencing in a master’s program in Data Science or Cyber Security.

Make yourself more employable and ready to launch into an exciting career with skills that are in high demand from some of the world’s biggest technology corporations.

**Bachelor of Computer Science/Master of Data Science**

The Bachelor of Computer Science is designed to provide a deeper understanding of all aspects of computer technology. With a Master of Data Science, you will be expertly placed to solve big data challenges across business, social, government and health data.

**Bachelor of Computer Science/Master of Cyber Security**

The Bachelor of Computer Science will teach you how to create and analyse computer-based systems. With a Master of Cyber Security, you’ll be able to look at the field from a different angle, ask bigger questions, and find new ways to tackle real and emerging cyber security threats.

For further information, please visit: [future-students.uq.edu.au](http://future-students.uq.edu.au)

---

**How a vertical dual degree works**

Commence in a vertical dual degree

Study the Bachelor of Computer Science

Choose any major:
- Cyber Security
- Data Science
- Machine Learning
- Programming Languages
- Scientific Computing

Study some Master’s courses.

Students have the option to exit with a Bachelor of Computer Science at the end of year three

Complete the Master of Cyber Security* or Master of Data Science

Graduate with two degrees

*The vertical dual degree is only possible with the Cyber Defence or Cryptography fields in the Master of Cyber Security component.

**Commonwealth supported places are currently available for domestic students in these programs.
Physical Computing students at UQ’s Interaction Design Exhibit.
Your Information Technology degree

With an IT degree, your career possibilities are endless. Tech skills are applied to a diverse range of applications in a large number of industries, from e-commerce to developing computer games. As a UQ IT graduate, you can find yourself working in systems and software development as an analyst, architect, designer, developer, programmer or project manager. The knowledge and skills you learn can also take you abroad, working internationally.

Your journey as an information technology student

Select one of three IT study areas
Consider Study Abroad semester
Budding student entrepreneurs can consider the UQ Ventures program
Graduate from the Bachelor of IT
Graduate from the Bachelor of IT (Honours)

Gain a degree accredited by the Australian Computer Society, which enables you to work anywhere in the world.

Start your IT studies

Entry

Year 1

Fundamental courses
Consider Study Abroad semester

Year 2

Discipline-specific courses
Budding student entrepreneurs can consider the UQ Ventures program

Year 3

Studio-based team projects
Graduate from the Bachelor of IT

Year 4

Innovation Showcase
Graduate from the Bachelor of IT (Honours)

Interaction Design Exhibit

Complete a research project

Undertake an Industry Placement

EAIT STUDENT EMPLOYABILITY TEAM
Getting you employed is our top priority. Get in touch with our Employability Team for industry networking events and workshops, personalised career-prep consultations and placement opportunities.

You can join over 220 clubs and societies at UQ

85% of graduates were satisfied with how their skills improved
Computer and Information Systems Course Experience Questionnaire 2019-2020

Did you know?
The digital technology sector is one of the fastest growing parts of Australia’s economy.
The future needs big ideas, fast movers, and people with creativity and talent. UQ’s Bachelor of Information Technology will give you specialised skills and knowledge to meet the needs of a rapidly changing world.

What you will study
Never before have technological changes been faster or more fundamental. From tracking your health using wearable technology to accessing and managing your data in the cloud, information technology is at the core of our new, connected era.

UQ’s Bachelor of Information Technology is a flexible, project-focused degree that provides you with the skills and knowledge to take on the new wave of digital roles. UQ’s Bachelor of Information Technology builds on a solid foundation in software and hardware. Through flexible study plans, you can specialise in areas including computer systems and networks, enterprise information systems, software design and user experience design.

6 of the 10 most valuable brands in the world are tech companies. Forbes, 2020
Areas you can specialise in:

User Experience Design

New technologies only succeed if they work for people. User Experience (UX) designers are the people who ensure the design of software, websites, or technologies meets their intended use – from commercial software to personal fitness apps to games, and everything in between. The User Experience Design study area is for anyone who wants to work in the multi-skilled field of human-centred design. UX designers work across all sectors of ICT, where their combination of people skills, creativity and technical abilities are in demand. Courses in this major focus on design skills and creativity, programming and prototyping in different media. Design skills are consolidated in Design Computing studio courses.

Software Design

There is a significant sector within the global IT industry that develops applications such as games, apps for mobile devices, or tools and systems used by individuals, government and other companies. This study area is aimed at students who wish to follow a career in the creation and management of software applications. Courses focus on programming, software development, project management, requirements analysis, specification and the software process, as well as software applications involving internet design, human-computer interaction, algorithms, data structures and concurrency.

Software Information Systems

Software information systems are integral to almost every business and government organisation. In this study area, you will develop the skills to design and build the information systems that are used everywhere in our modern life: in retail, banking, health care, transport, education, entertainment, science and engineering. During your studies, you’ll not only learn how to create large, effective and efficient information systems, but also how to incorporate business management processes into the system’s development in order to maximise the system’s performance.

Minor: Computer Systems

You can also minor in Computer Systems. This minor gives students a strong background in understanding how software is controlled on one or many computers, including security, networking and operating systems. It is a strongly technical minor, requiring strong conceptual and programming skills. Courses focus on programming, computer architecture, computer networks, networks programming, and operating systems. Graduates can look forward to careers in security, design of new cutting-edge computer systems and integration of large-scale systems based on networked machines.

“...The best knowledge I gained from studying a Bachelor of Information Technology at UQ has been how to effectively learn new things. It’s easy to get overwhelmed when presented with something you know very little about, but by being guided through the process, it’s now much easier to pick up new and exciting concepts. I still use the base knowledge I learned through the first- and second-year programming courses every day.

My favourite part of my job is the satisfaction of finding a pain point that affects someone’s day-to-day life and creating a solution that makes their life easier.”

Nathan Dench
Bachelor of Information Technology (Software Design)
Co-founder and Software Engineer, ProcurePro, Brisbane

For more information
Visit future-students.uq.edu.au or scan the QR code
Employability

It’s important to build your employability while at university.

Our dedicated Student Employability Team encourage you from day one to participate in activities that will enhance your employability. So, when you graduate, you’ll be equipped for lifelong success, in any path you choose.

Today, more than ever, employers are looking for well-rounded graduates who, in addition to the knowledge learnt in their degree, hold a diverse set of leadership, teamwork, communication and conflict management capabilities gained through experiences at university.

How will you stand out to future employers when you graduate?

We are here to help

The Student Employability Team provides information and opportunities to prepare, connect and enable you to gain the tools to set you up for success as a UQ graduate. These opportunities include online modules, workshops and events, in-curricular activities, and one-on-one consultations. Employability is more than just getting a job; it’s the ability to perform effectively throughout your career and to articulate your unique value to future employers.

By collaborating with industry, our activations expose you to many different types of roles and industry environments to expand your understanding of what your career could look like.

We expand your networks

Online tools to build your employability

- **Career Kickstarter** is a free online platform that teaches you the key steps to standing out in the recruitment process including topics such as understanding the job application process, how to write a standout resume and cover letter, interview skills and more.

- Our employability blogs showcase tips and tricks from both industry and recent graduates on lessons learnt during their time at university.

- An online workshop series develops your expertise in communication and leadership.

We connect you with industry through:

- networking events with industry for you to meet potential employers
- student and graduate stories, and industry-led panel events
- employer-led information presentations
- industry tours
- work-integrated learning opportunities
- industry-led workshops
- sharing the advertisements of current roles and opportunities.

We’re with you every step of the way

- Our office is open five days a week and our services are available to all engineering, architecture, design and computing students.

- Attend mock interviews and job application preparation to practise prior to the real process.

- Learn how to communicate your employability attributes.

- Discover tips to successfully transition into the workforce.

- No two journeys are the same. We provide one-on-one employability consultations to go through your individual employability requirements and provide tailored advice.

Engineering Professional Practice (EPP)

Engineering students are required to complete 450 hours of Engineering Professional Practice before graduation. The Student Employability Team supports students to secure Engineering Professional Practice opportunities through:

- one-on-one consultations to discuss topics related to your resume, cover letter, job applications, job search strategies and how to submit your professional practice hours

- delivering employability-related workshops

- arranging employers on-campus events where you can hear from industry on employability and recruitment related topics

- advertising student opportunities.

You can claim hours towards your EPP by attending our employability events and activities. Check the employability website for full details.

Our services are free to students, complement your studies, and are designed to help you build your network and the confidence to articulate your value to future employers.

Contact us:

+61 7 3365 8534
employability@eait.uq.edu.au
eait.uq.edu.au/employability

Visit us on Level 3, Hawken Engineering Building (SO)

Get career ready

It’s never too early to start thinking about your employability. The EAIT Student Employability Team has advice and resources to help get you through the recruitment process and prepare for your career.
Jake Warren, Bachelor of Engineering (Honours)/Master of Engineering (Mechatronic) student on placement at Coachair

“The EAIT Student Employability team goes above and beyond when it comes to getting students career-ready. I can wholeheartedly say that in my experience, this team can really prepare a student for industry. The EAIT Employability team has personally challenged me to develop and improve and as a result, I can genuinely say my whole student experience – academic, cultural, social and career-wise – has been positively influenced by each individual in their team.”

Zoe Little
Bachelor of Engineering (Honours) (Electrical) / Bachelor of Business Management (Business Economics), Senior Associate RF/Wireless Engineer, L3Harris

“...”
Isabella Fyfe, Bachelor of Architectural Design graduate
Your life in Architecture

Our creative and globally focused courses help you develop the skills you’ll need to design smart and sustainable buildings and places. You’ll have access to the latest technologies, innovative processes, and a wealth of architectural and built environment resources and experience to create a strong foundation for your design career.

Your journey as an architectural design student

- **Start your Architectural Design studies**
- **Foundation Year**: Learn the fundamentals of creative design
- **Year 1**: Consider Study Abroad semester
- **Year 2**: Develop design skills for local and global contexts
- **Year 3**: Hone your design skills through practice
- **Year 4**: Master of Architecture
- **Year 5**: Graduate from the Master of Architecture

You can join over 220 clubs and societies at UQ

Be inspired by unfamiliar places and consider an International Travel Studio

Consider a year in industry or jump straight into a Master of Architecture

Gain an accredited degree that enables you to work around the world

Top 100

*in the world for Architecture/Built Environment courses*

*QS World University Rankings by Subject 2021

Latest design technologies

Collaborative culture

Global focus – learn locally and globally
Want to make the world a better place through sustainable design and innovative solutions? Then a career in architecture might be for you.

What you will study
Architects solve diverse and complex problems. The Bachelor of Architectural Design provides you with the fundamental skills and technical knowledge you’ll need to develop innovative and sustainable design solutions for our future buildings, communities and environments.

At UQ, you will develop your creative problem-solving skills with constructive and progressive project-based courses in design and technology. The School of Architecture’s facilities give you access to the latest technologies and resources to develop your ideas from design conception through to presentation, documentation and models.

You will gain a rich understanding of cultures, people and places throughout history and in today’s societies. You’ll experience how the built environment can impact communities through inspiring international study tours, Indigenous and multicultural projects, and our diverse and globally experienced teaching staff.

Integrated sustainability and technology
The natural and urban environment will also directly impact on your designs. Your education in sustainable systems, materials and strategies is integrated into both your design and technology courses, where you will also learn about structural systems and construction methods, as well as visiting architectural building sites during construction.

Practical experience
The design courses form the main area of study in the Bachelor of Architectural Design. In these courses, projects are developed in a studio setting through the application and integration of the knowledge and skills acquired from supporting courses. In addition to design, key areas of the program include environmental design, architectural technology, history and theory, communication, and digital design.

Aims and specific objectives
On completion of the Bachelor of Architectural Design, you will be able to:

- start your career as a graduate designer in an architectural practice, drafter, building designer or 3D visualisation artist
- use conceptual ideas to design the built environment at all scales – from broad strategic thinking to the detailed resolution of buildings
- present and discuss architectural design outcomes with peers, the profession and the community
- articulate a coherent set of architectural design values.

COURSE HIGHLIGHTS
- International study tours
- Learn from leading architects
- Small design classes
- Project-based learning
- Industry mentorship opportunities

For more information
Visit future-students.uq.edu.au or scan the QR code
Becoming an architect

Following the completion of your Bachelor of Architectural Design, your next step to becoming a registered architect is with UQ’s Master of Architecture.

Master of Architecture

The Master of Architecture is the second stage of UQ’s Architecture program, providing you with the necessary skills, experience and qualifications for your registration as a professional architect. You will undertake a range of courses designed to broaden your creative design skills, and develop advanced technical and professional skills relevant to the practice of architecture.

Students often choose to spend a year or more working in an architectural practice to gain professional experience before returning to complete their Master of Architecture.

Professional affiliations

Upon graduating from the Master of Architecture degree, you will be eligible to commence the registration process through the Board of Architects of Queensland.
Above: Fabio De Sousa with his work, “A Habitat for All” at the 2021 Exhibition, Practice.
How will you learn?

At UQ, it’s all about practical and creative learning through design studios. UQ Architecture emphasises the importance of practical skills so that you can communicate and refine your ideas through drawings, models, prototypes and structures. Our teaching model is founded on hands-on learning at multiple scales, leading to more complex materials and forms. You’ll learn all this and more in our design studios.

What is a design studio?

Design studios are essentially classes that help you research, explore and innovate solutions for a changing world. Run by academics or members of the global architecture industry, design studios reflect the processes and culture of architectural firms. Studios are based on current projects and problems which you will thoroughly interrogate. At the end of each semester you will present your design concept in front of your peers and experts.

In our studios, you will learn to create exciting new spaces by testing ideas three-dimensionally, through making and building. Working hands-on with paper, card, clay and foam will give you the confidence to experiment with architectural form. You’ll also have opportunities to make models using laser cutters and 3D printers, to construct prototypes, and even to work on small structures using our well-resourced workshop facilities.

Your design studio time will make up the majority of your contact hours on campus (up to 50 per cent).

International travel studios

Travel is an essential part of an architectural education. Unfamiliar places inspire creative ideas. Travel gives you the chance to experience architecture from different places and times and provides perspective and understanding of diverse cultures.

An international career

As a UQ Architecture student, you’ll have the opportunity for international travel as part of your degree. In the last four years, our students have enjoyed study tours to Hong Kong, the US, Japan, India, Myanmar, Malaysia and Sri Lanka. UQ Architecture has secured generous funding from the federal government for its international travel program that has supported more than 150 students.

We believe that travelling prepares our graduates for international careers as architects. Students who study abroad are likely to be more resourceful, willing to take chances and immerse themselves in unfamiliar situations, and have cross-cultural understanding and curiosity.

Mentoring through the Australian Institute of Architects

Architects from the Queensland Chapter of the Australian Institute of Architects mentor students, offering career guidance along with industry experiences such as site visits. We encourage students to join the Institute and build connections with the architectural community.
What you can do with a Bachelor of Architectural Design

Hot jobs
- Architectural graduate
- Project manager
- Draftsperson

Jobs where your Bachelor of Architectural Design would be useful:
- Design-oriented publishing and media
- Production designer in theatre, film and television
- Building surveyor
- Construction manager
- Academic and researcher
- Design manager
- Property and real estate developer

“"I chose to study Architecture at UQ after attending the UQ Open Day, where I saw past students’ work on display. I saw architecture as a natural extension of my interests in visual art and science.

During my studies I was fortunate to visit a remote First Nations community. This was a unique opportunity to learn about Australia’s ancient culture and respectful architectural design. The experience left a lasting impression on me.

The facilities and educators at UQ also provided me with the opportunity to learn to design aesthetically pleasing and environmentally sustainable architecture, through modes of experimentation and by employing innovative techniques. I use these skills and techniques daily in my Graduate of Architecture role.”

Paris Jacobs
Bachelor of Architectural Design
Graduate of Architecture, Hames Sharley, Queensland

“If you often find yourself noticing your surroundings and how a space makes you feel, then architecture might be for you. If you’re passionate about design and shaping our world for the better, then go for it.

My best memory of studying at UQ was a trip to Myanmar where we worked on the conservation and adaptive reuse of significant heritage buildings that were at threat. It was a fantastic opportunity to work with the global architecture community such as local architects, heritage societies and students.”

Matthew Walton
Architectural Graduate, Rothelowman Architects, Brisbane

51
Students studying in the Advanced Engineering Building
Your life in Design

Good design is essential. It starts with identifying a problem and ends with an outcome driven by the desire to meet the needs of the user. When we open our eyes to what users truly want, we create products and services that provide exceptional value. Discover how you can design creative solutions for people and a better world.

Your journey as a design student

- **Start your Design studies**
- **Learn the fundamentals of design**
- **Consider Study Abroad semester**
- **Hone your skills through studio-based practice**
- **Graduate from the Bachelor of Design**

Discover how you can design creative solutions for people and a better world.
This multidisciplinary program incorporates elements of business, IT, architecture and the humanities. You will develop a flexible range of skills to succeed in almost any industry – from digital communication or industrial design to spatial and human-centred design.

What you will study

UQ’s Bachelor of Design offers a new take on design, one where you’ll challenge conventional thinking and bring a different mindset to business and societal problems. You’ll graduate with the creativity and knowledge necessary to generate and design ideas for a better, more sustainable world.

You can specialise in one or two majors that align with your preferred career pathway. Choose from Anthropology, Buildings and Environments, Environment and Society, Information Environments, Innovation and Entrepreneurship, and Media and Digital Cultures.

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>UQ CODE</th>
<th>MINIMUM SELECTION THRESHOLD 2022 ATAR / IB</th>
<th>LOWEST ATAR TO RECEIVE AN OFFER 2022 ADJUSTED</th>
<th>UNADJUSTED</th>
<th>DURATION</th>
<th>START SEMESTER</th>
<th>CAMPUS</th>
<th>DUAL PROGRAM AVAILABLE</th>
<th>ADMISSION REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>711203</td>
<td>2454</td>
<td>86.00 / 52</td>
<td>86.35</td>
<td>84.35</td>
<td>3 years full-time (or part time equivalent)</td>
<td>1</td>
<td>St Lucia</td>
<td>Business Management, Engineering (Honours)</td>
<td>Queensland Year 12 (or equivalent) General English subject (Units 3 &amp; 4, C)</td>
</tr>
</tbody>
</table>

* Minimum (adjusted) selection threshold 2022 is the minimum score that was considered for an offer of a place to all applicants.

* Lowest ATAR to receive an offer refers to all recent secondary students who were offered a place for Semester 1, 2022. The lowest ATAR (Adjusted) refers to the ATAR plus any adjustment factors. The Lowest ATAR (Unadjusted) refers to the lowest ATAR excluding any adjustment factors.
As a designer, you’ll possess the expertise and creativity to respond to the complex needs of a contemporary world. Depending on which major you choose, you could pursue a career as a:

- Business entrepreneur
- Environmental graphic designer
- User-experience designer
- Product designer
- Design manager
- Change manager
- Urban designer
- Strategic advisor
- Digital media designer

### CAREERS

**Areas you can specialise in:**

#### Anthropology

Designing anything is a social process. Anthropology is the study of humans, our societies and our cultures in all their complexities. Good design requires us to think about how people will engage with and relate to the envisioned product, service or practice. In this major, you’ll develop skills that transfer across multiple industries with a focus on understanding the people you’re designing for and their future needs.

#### Buildings and Environments

The Buildings and Environments major places particular emphasis on the role designers play in shaping how the world works. You will explore both building and planning, including sustainability and conservation, transport and infrastructure, architecture and built environment, and the economic and social aspects of development.

#### Environment and Society

Explore the interconnections between people and the environment. Learn how human-led processes and design outcomes shape our ability to respond to pressing environmental problems, including climate change, bushfires, food insecurity, waste and biodiversity loss. Drawing from many disciplines, including sociology, anthropology, planning, philosophy and economics, this major covers global issues including social and environmental injustice, environmental racism and violence, the politics of conflict, and activism and social change.

#### Information Environments

Learn how to use code and data to design human-centred technology that is fit for purpose. You’ll explore the design and construction of the technologies and systems that society depends on for crucial functions such as commerce, entertainment, and communications, and develop a deeper understanding of the interconnected systems and devices that make worldwide communication possible.

#### Innovation and Entrepreneurship

Learn how to take a new idea to market by building a new business from the ground up. You’ll be introduced to basic principles of innovation and entrepreneurship, including the entrepreneurial mindset and process. Then you’ll apply this knowledge in practical courses on digital innovation, social entrepreneurship and growth strategies, as well as technology and innovation management. Through leadership development, you’ll become a resourceful, creative and resilient innovation leader who delivers sustainable commercial and social value. Further extending your skillset, you’ll engage directly in a short placement or consulting project in a startup or commercial partner project.

#### Media and Digital Cultures

Examine the cultural aspects of digital technologies and how they influence the design, use and impact of contemporary media in our everyday lives. You’ll engage with course components that examine culture as art, popular culture, social media, and the cultural diversity of digital media in Australia and across the world. This major is particularly suitable for students pursuing professional ambitions in the digital media industries and user-centred digital design.

“The question we need to ask is, where do you want to start your career? The conversation is no longer about a long-term view and a fully developed plan for when you’re 50. It’s not about where you will eventually be – it’s about the breadth and diversity of the starting point.”

Adjunct Professor Kirsti Simpson
Chair of the School of Architecture’s Industry Advisory Board

For more information Visit future-students.uq.edu.au or scan the QR code
Regional and Town Planning students in UQ's Planning Studio
Your place in Urban Planning

Develop the knowledge and skills needed to help communities, companies and governments integrate the urban, environmental, economic and social aspects of development from site design to regional scale analysis.

Your journey as a planning student

You have the opportunity to enrol in courses that will take you on field studies to Indonesia and Hong Kong.

You will undertake a planning project each year, where you will work with industry, government and community partners on real-life projects.

You have the opportunity to enrol in courses that will take you on field studies to Indonesia and Hong Kong.

#17 in the world for Environmental Studies and #45 for Geography

QS World University by Rankings, 2021

You can join over 220 clubs and societies at UQ

Go on site visits and elective field trips in Australia, Hong Kong and Indonesia

Undertake an industry placement

Gain a degree accredited by the Planning Institute of Australia and enter the urban planning profession

Start your Regional and Town Planning studies

Discipline-specific courses

Entry

Year 1

Year 2

Year 3

Year 4

Consider Study Abroad

Choose your BRTP or BRTP (Honours) program

Graduate from BRTP

Graduate from BRTP (Honours)

Work on planning projects with industry partners

Discipline-specific courses plus Professional Practice and/or honours research

Gain a degree accredited by the Planning Institute of Australia and enter the urban planning profession

ENGINEERING, DESIGN, COMPUTING, ARCHITECTURE AND PLANNING 2023
Bachelor of
Regional and Town Planning

From site design to regional-scale analysis, you will learn how planning helps communities, companies and governments integrate the environmental, economic and social aspects of development.

What you will study
Learn land-use planning, urban design, transport and infrastructure planning, community planning, heritage and conservation, resource management, environmental monitoring, planning law and practice, commercial and industrial development, and policymaking and implementation. You will gain skills in long-range planning as well as structural and statutory components, including the current development of the built and natural environments and the legislative framework controlling land use. Your lecturers are experts in planning theory and practice, and collaborate with guest lecturers from industry to give you access to case studies from the professional sector. You will gain knowledge and practical skills, and undertake industry-focused planning projects in each year of your studies. In your fourth year of study, you can choose to focus on industry placement or undertake a research project (honours) or, if qualified, you can undertake both. You will receive advice during the third year of your program as to which of these options is most appropriate based on your areas of interest and your academic performance during the first three years of the program.

Placements and practical experience
Throughout the program you will undertake real-life planning projects. These projects expose you to planning, urban design and community engagement activities. Past students have worked on the Indooroopilly Activity Centre, Yeerongpilly transit-oriented development site, and the inner-city redevelopment for Brisbane City Council. Choose to internationalise your studies by enrolling in field studies courses to Indonesia and Hong Kong, which focus on the development of cities and urban areas, and the key issues facing different regions around the world.

For more information
future-students.uq.edu.au science.uq.edu.au/planner
UQ’s Regional and Town Planning is accredited by the Planning Institute of Australia (PIA)

The 2032 Olympics are coming to Queensland. If you want to be involved in preparing the city for this international event, study Urban Planning at UQ.

Where can I work?
You will be entering a dynamic industry that improves the quality of life for people in cities and regions. As a UQ graduate, employers will seek your ability to make environmentally, socially and economically sustainable decisions. You will be employed in a variety of roles in the public and private sectors, including:

- statutory or strategic planning
- regional development
- urban design
- environmental management and monitoring
- technology for planning
- spatial planning
- commercial and industrial development
- engineering and architectural applications
- heritage and conservation
- land-use planning
- planning law and practice
- resource management
- social planning
- tourism
- transport planning.

For more information
Visit future-students.uq.edu.au or scan the QR code

“I chose to study at UQ because of its reputation, as it is well recognised both locally and internationally. The support from lecturers and tutors at UQ was incredible. My lecturers in strategic planning and urban design really forged my passion for planning at a macro level. The staff are genuinely interested in nurturing you to be the best planner you can be, and provide you with all the tools necessary to start you off in the world of planning.”

Nicholas Nalder
Bachelor of Regional and Town Planning
As a locally and globally connected university, UQ provides many opportunities for students to apply knowledge gained in the classroom to real life. You will have access to work-integrated learning, entrepreneurial courses, local and global internships and volunteer positions to boost your confidence, capabilities and resume.

A wide range of free programs is available to complement your studies, and to help you build a network, take on new challenges and bring your ideas to life.

Connect with your career possibilities

From first to final year, you can plan for your successful transition from student to professional.

- **Employability:** life at UQ reaches far beyond the lecture theatre, and the careers and employability staff across UQ will help you make the most of your time at university. Our approach to employability goes beyond simply getting a job. We focus on how you can use your capabilities to perform effectively in the workplace, to create work opportunities, and to make an impact through your work.

  [employability.uq.edu.au](http://employability.uq.edu.au)

- **Mentoring:** UQ offers a number of mentoring programs that provide valuable leadership and guidance through all stages of your time at UQ and beyond. From supporting you with the transition to university life to fostering positive cultural, social and professional connections, programs vary from one-on-one, small group to peer community – so you can find what works for you.

  [my.uq.edu.au/mentoring](http://my.uq.edu.au/mentoring)

- **Volunteering:** build your skills and extend your professional and personal network while contributing to a worthy cause. UQ can help you find volunteer opportunities at UQ and link you with external organisations both within Australia and worldwide.


Workplace learning

Internships, placements and networking will be part of your study experience at UQ through work integrated learning. Grow your entrepreneurial mindset and professional network before you graduate.

- **Business, Economics and Law:** our students have the chance to experience work integrated learning during their program. Our employability elective course – co-created by students, staff, alumni and industry – provides the opportunity to collaborate with industry.

- **Engineering, Architecture and IT:** the Meet a Mentor program connects third- and fourth-year undergraduates, one-on-one with experienced alumni and industry professionals.
• Health and Behavioural Sciences: 10 clinics providing healthcare, rehabilitation and nutrition services to the general public expose our students to the latest in equipment, tools and care.

• Humanities and Social Sciences: internships, field trips and placements in Brisbane, interstate and overseas are available to students. A mentoring program connecting students with industry professionals is also offered.

• Medicine: students undertake placements in hospitals and clinics around the world, where they are trained and mentored by doctors and healthcare specialists.

• Science: our researchers work with scientific and industry partners ranging from local biotech startups to peak bodies for science, agriculture, and environment, through to multinationals like RioTinto and BHP.

• Extra-curricular opportunities: with UQ’s range of entrepreneurship programs, students can access local and global internships and work experience.

Through Ventures, you can build an entrepreneurial mindset, solve industry challenges and pursue business or social-impact opportunities.

The Iab Accelerator also supports students, researchers and alumni through the early stage of business development by providing seed funding and mentoring so they can scale their business or social enterprise.

UniQuest, UQ’s commercialisation company, has created more than 100 startups while licensed UQ technologies have generated more than $40 billion in gross product sales.

UQ has been in partnership with Boeing, the world’s largest aerospace company, since 2003. Boeing Research & Technology–Australia (BR&T-A) is located at our St Lucia campus. Boeing collaborates with UQ researchers and students on the latest ideas in aerospace, so you can learn from their discoveries and setbacks in the classroom or directly from Boeing staff.

At UQ, we encourage every student to get involved with the Ventures entrepreneurship community. All programs are free for UQ students across all disciplines and study levels, and will help you to develop entrepreneurial skills, connect with like-minded students and create your own path. Programs are complemented by a wide range of events and competitions throughout the year, including hackathons, industry events, alumni get-togethers, workshops and pitch nights.

Curious about where Ventures can take you? You’ll find the people, tools and opportunities to help bring your ideas to life. There’s support at every stage of your Ventures journey – from flexing your creative muscles to launching a startup.

Introductory
Gain the skills and mindset to innovate like an entrepreneur.

Our introductory programs will help you to get inspired, learn core entrepreneurial skills, immerse yourself in UQ’s community of entrepreneurs and give you the confidence to take your first steps in your Ventures journey.

Skills applied
Put your knowledge into practice by solving real industry problems.

Challenge your ideas and make them a reality by applying your new-found entrepreneurship skills to our intermediate program offerings. Test and validate the fit between your ideas and market needs while developing a sustainable business model for your product or service.

Advanced
Gain global connections and support to launch your own startup.

Become a global thinker and learn from the world’s most innovative startup hubs. Ventures Startup AdVentures are four-week intensive global learning experiences (virtual and in-person) in San Francisco, Shanghai, Shenzhen, Tel Aviv or Singapore.

UniQuest, UQ’s commercialisation company, has created more than 100 startups while licensed UQ technologies have generated more than $40 billion in gross product sales.

UQ has been in partnership with Boeing, the world’s largest aerospace company, since 2003. Boeing Research & Technology–Australia (BR&T-A) is located at our St Lucia campus. Boeing collaborates with UQ researchers and students on the latest ideas in aerospace, so you can learn from their discoveries and setbacks in the classroom or directly from Boeing staff.

At UQ, we encourage every student to get involved with the Ventures entrepreneurship community. All programs are free for UQ students across all disciplines and study levels, and will help you to develop entrepreneurial skills, connect with like-minded students and create your own path. Programs are complemented by a wide range of events and competitions throughout the year, including hackathons, industry events, alumni get-togethers, workshops and pitch nights.

Curious about where Ventures can take you? You’ll find the people, tools and opportunities to help bring your ideas to life. There’s support at every stage of your Ventures journey – from flexing your creative muscles to launching a startup.

Introductory
Gain the skills and mindset to innovate like an entrepreneur.

Our introductory programs will help you to get inspired, learn core entrepreneurial skills, immerse yourself in UQ’s community of entrepreneurs and give you the confidence to take your first steps in your Ventures journey.

Skills applied
Put your knowledge into practice by solving real industry problems.

Challenge your ideas and make them a reality by applying your new-found entrepreneurship skills to our intermediate program offerings. Test and validate the fit between your ideas and market needs while developing a sustainable business model for your product or service.

Advanced
Gain global connections and support to launch your own startup.

Become a global thinker and learn from the world’s most innovative startup hubs. Ventures Startup AdVentures are four-week intensive global learning experiences (virtual and in-person) in San Francisco, Shanghai, Shenzhen, Tel Aviv or Singapore.
Make your UQ experience more affordable with the support of a scholarship. You may not think you're eligible for a scholarship, but you might be surprised!

Apply for a scholarship

University-wide scholarships

UQ has a range of scholarships designed to attract, reward and support outstanding students from all walks of life. Our scholarships develop and encourage tomorrow’s leaders and offer support to students who might not otherwise be able to attend university.

UQ Academic Scholarships

The UQ Academic Scholarships scheme offers two flagship undergraduate scholarships: UQ Vice-Chancellor’s Scholarships and UQ Excellence Scholarships.

If you’re completing Year 12 in 2022, or you completed Year 12 in 2021 and are on a gap year, you may be eligible to apply for a scholarship.

Equity scholarships

UQ strongly believes all students deserve equal access to education. Equity scholarships are designed to support students from low socio-economic, disadvantaged or under-represented backgrounds.

Study area scholarships

UQ has a diverse range of scholarships that support and encourage commencing and continuing students in particular study areas.

scholarships.uq.edu.au

Employability

UQ offers a variety of grants and loans to participate in a range of enriching international and domestic experiences that will enhance your employability.

employability.uq.edu.au/financial-support

Sporting

Elite athlete support
UQ is an elite athlete-friendly university, which supports over 200 elite-level student-athletes to manage their sport and studies. Dedicated UQ Sport staff, in partnership with UQ, provide academic liaison support to negotiate flexible options for enrolment, assessment and course-related needs.

uqsport.com.au/scholarships

Engineering, Computing, Architecture scholarships

Alumni Advantage Scholarship in Electrical Engineering
To support first-year students undertaking the Bachelor of Engineering (Honours) program (including a dual program) in the field of electrical engineering or software engineering from an ‘under-represented’ cohort – this means that the student will be facing financial disadvantage, and/or is female, and/or is Indigenous.

Award value: $3000 for one year.

Alumni Advantage Scholarship in Computer Science
To encourage and support first-year students undertaking a Bachelor of Computer Science, from an ‘under-represented’ cohort – this means that the student will be facing financial disadvantage, and/or is female, and/or is Indigenous.

Award value: $3000 for one year.

Calboonya Legacy Information Technology & Computer Science Scholarship
The purpose of the Scholarship is to encourage and support Commencing Students or past Scholarship recipients facing financial hardship, by allowing them the opportunity to pursue undergraduate studies in the areas of computer science and information technology at The University of Queensland.

Award value: $4500 for one year.

Codebots Scholarship
To encourage and assist Australian Aboriginal and/or Torres Strait Islander and/or female students to undertake studies in computer science, information technology and software engineering.

Award value: $5000 for one year.

HUB24 Regional QLD Electrical Engineering and Computing Science Scholarship
To encourage and support first or second year students from a Regional Area who may have experienced financial disadvantage to pursue studies in ICT.

Award value: $8000 for one year.

Kathy Hirschfeld AM Scholarship Endowment for Women in Engineering
To encourage and support first year female students to undertake studies in engineering at The University of Queensland who are currently experiencing financial barriers.

Award value: $4500 for one year.

Please note: All figures were correct at time of printing but are subject to change. See scholarships.uq.edu.au before applying to confirm correct values.
Faculty of Engineering, Architecture and Information Technology Year 12 International Award
To assist international students who have completed senior high school.
Award value: $10,000.

Liveris Academy Undergraduate Scholarship
The Liveris Undergraduate Scholarship was established in 2019 by global business leader Andrew Liveris and his wife Paula Liveris, who generously donated $13.5 million to the University of Queensland to help establish the Andrew N. Liveris Academy for Innovation and Leadership in the University’s Faculty of Engineering, Architecture and Information Technology. The Liveris Academy aspires to build a generation of effective and inspiring leaders with a mindset geared towards creating a sustainable future. The Liveris Undergraduate scholarship is maintained by the income generated from an endowed fund. The purpose of the scholarship is to encourage and support outstanding students in the Bachelor of Computer Science, the Bachelor of Engineering (Honours), Bachelor of Information Technology, the Bachelor of Science, the Bachelor of Advanced Science (Honours), the Bachelor of Mathematics or a dual program including one of these programs at The University of Queensland, who have the potential to lead solutions to some of the world’s most pressing sustainability challenges.
Award value: $10,000 per year for up to six years.

Newcrest Mining Engineering Scholarship
To encourage and support meritorious students in the final 3 years of study in the Bachelor of Engineering or Bachelor of Engineering (Honours) program.
Award value: $10,000 for up to three years.

Queensland Firebirds and Blackbook.AI Scholarship
To encourage and support meritorious first year female students studying computer science or information technology.
Award value: $5000 for up to three years.

Sir William Tyree Engineering Scholarship
To encourage and support students first-year students from Rural or Regional Areas in Queensland, who intend to specialise in electrical engineering and who are experiencing financial hardship.
Award value: $15,000 for up to four years.

Warwick Solar Farm – Bright Futures Scholarship
The Warwick Solar Farm – Bright Futures Scholarship was established in 2020 and maintained by an annual gift from Properties and Facilities Division – Energy and Sustainability, The University of Queensland. The purpose of The Warwick Solar Farm – Bright Futures Scholarship is to encourage and support commencing first year students studying a Bachelor of Engineering (Honours), Bachelor of Information Technology, Bachelor of Architectural Design or Bachelor of Computer Science, who are from the Local Government District of the Southern Downs Regional Council and who may have experienced financial disadvantage to pursue studies at The University of Queensland.
Award value: $5000 for one year.

Electrical Engineering and Computer Science Scholarship
To encourage and support first-year students studying the Bachelor of Engineering (Honours) or a Bachelor of Computer Science.
Award value: $3000 per year.

There are also many scholarships available for students in second and later years that provide fee relief or financial assistance. scholarships.uq.edu.au

“...The impact that scholarships have on students is overwhelmingly positive and I can’t be thankful enough for the support I have been offered. The opportunities they have provided me have completely transformed my university experience and enriched it with invaluable academic and cultural experiences. Knowing that someone else believes in my potential and has invested in my future has strengthened my dedication to my studies. I hope that one day I too will be in a position where I can support students to pursue their dreams.”

Anastasia Laczko
Bachelor of Engineering (Honours) (Mechatronic) / Bachelor of Information Technology (Software Design), Current Student
UQ Scholarship recipient

200+ more to choose from
UQ’s generous industry partners and private donors contribute to bring you a range of scholarships with varied criteria.
Are you an international student?

While a lot of information in this guide is relevant to you, certain key information may be different for international students.

You are an international student if you are:
• not a citizen of Australia or New Zealand, or
• not an Australian permanent resident, or
• a temporary resident (visa status) of Australia.

Eligibility for UQ study
For admission into undergraduate programs at UQ, you must have:
• completed secondary studies equivalent to Queensland Year 12 with a score comparable to the ATAR specified for your program
• satisfied individual program requirements (e.g. specific subject prerequisites, auditions or interviews)
• satisfied UQ’s English language proficiency requirements.
If you do not meet these criteria, you might consider taking a foundation program bridging course or English language pathway offered by UQ College.

Pathway options
future-students.uq.edu.au/admissions/undergraduate/consider-your-pathway-options

Applying to UQ
A UQ degree is a qualification the world will recognise. If you’ve got the ability, commitment and ambition to make the most of UQ, then we want to hear from you.
future-students.uq.edu.au/admissions

Study options at UQ
If you would like to know more about your study options at UQ, enquire through our online form and one of our UQ advisers will respond. You can also register for a consultation call with one of our student advisors. If you are in Brisbane, sign up for a campus tour.
We also have a range of publications, including the international undergraduate and postgraduate student guides, to help you.

Contact us
future-students.uq.edu.au/contact-us

Advisory calls

Campus tours
future-students.uq.edu.au/university-life/campus-tours

Program guides
future-students.uq.edu.au/teachers-guidance-counsellors

Fees
As an international student, you will pay tuition fees, and potentially other non-tuition fees. UQ has program-based tuition fees for coursework award programs, meaning that all courses within a program are charged at the same tuition fee rate per unit for a given academic year. Some programs also have additional costs.
Non-tuition fees paid to the University may include the student services and amenities fee, books and equipment, health insurance, administration, accommodation and assistance to apply for or hold a student visa.
future-students.uq.edu.au/admissions/undergraduate/review-fees-and-financial-support

Other expenses
International students applying to study in Australia must have a student visa or an alternative visa that enables them to study full-time on campus. Please consider expenses such as visa and medical (pre-departure) fees, general living expenses, establishment costs such as buying furniture, paying a rental bond and setting up electricity, gas and mobile phone accounts, as well as return airfares and Overseas Student Health Cover (OSHC) when you plan your budget.
future-students.uq.edu.au/university-life/living-in-brisbane/cost-living

“I ultimately chose UQ due to its location in Brisbane and its superior reputation. I also knew that UQ had partnerships with industry-leading Australian companies and international organisations. This combined with the unique opportunity to major in Machine Learning at an undergraduate level convinced me to enrol at UQ.”

Mallika Mukherji
Bachelor of Computer Science

UQ has more than 20,000 international students from 142 countries
A truly global network

You know the importance of thinking and acting globally. So do we.

Our worldwide partner and alumni networks give you the international opportunities and connections to enhance your learning, life skills and employment prospects from the start of your degree to long after you graduate.

Grow your global network
As a UQ student, St Lucia, Herston or Gatton is just the first stop on your university adventure. Grow your global network through our student exchange program by studying up to two semesters of your degree at one of our 141 partner institutions in 34 countries.

You’ll gain credit while expanding your world perspective, enhancing your employability, developing your network, and maybe even learning a new language. While on exchange, tuition fees at the host university are waived as you remain enrolled at and pay fees to UQ.

Employability.uq.edu.au/get-experiences

Unlock new languages
In a global economy, the ability to communicate with a wide range of people is invaluable. Want to brush up on your language skills? Current undergraduate students can study a Diploma in Languages alongside any UQ program. Language classes are also offered to students and the public at our Institute of Modern Languages where you can choose from more than 25 different languages.

School of Languages and Cultures languages-cultures.uq.edu.au
Institute of Modern Languages iml.uq.edu.au

Take a short-term experience
While studying, you can participate in short-term global and virtual study experiences scheduled during the semester breaks, where you can immerse yourself in a new culture for two to eight weeks to enhance your academic learning and employability. If you’re looking at expanding your practical skillset through short-term work experiences, opportunities for domestic, virtual and global internships are available.

Employability.uq.edu.au/get-experiences

Make global business connections
At UQ, you’ll join a global network of more than 307,000 graduates, many of whom are leaders in their fields, including more than 15,800 PhDs in 170 countries. You’ll benefit from an extensive graduate network, strong industry partnerships and many notable alumni.

Alumni.uq.edu.au

Global Startup AdVentures
Learn alongside a startup in some of the world’s most vibrant startup hot spots – including San Francisco, Shanghai, Shenzhen, Tel Aviv and Singapore.

Ventures.uq.edu.au/startup-adventures

Partner for change
Global connectivity is at the heart of our vision to create knowledge leadership for a better world. From renewable energy technologies and sustainable mining practices, to disease control and child psychology, our international collaborations are working towards a cleaner, healthier and happier future.

Explore our impact around the world.

Global-engagement.uq.edu.au

We are a member of the prestigious Group of Eight coalition in Australia and the leading global network of research universities, Universities 21.
Choose your program

- Read your program options (see pages 4-59)
- Visit future-students.uq.edu.au.

TIP: Check that you meet eligibility, merit and other entry requirements and meet any specific program deadlines.

A range of study area guides and other UQ publications can help you choose the right program.

future-students.uq.edu.au/publications-and-forms

Apply via QTAC

Apply for admission to UQ undergraduate programs through the Queensland Tertiary Admissions Centre (QTAC). The QTAC website explains how to apply and the entry requirements you need.

List up to six program preferences. You’ll only receive one offer – for the highest preference you’re eligible for. Place programs in order of preference, placing your dream program first and your back-up options next.

Accept your offer

1. Log in by clicking ‘Applications’ and then ‘Apply or Log In’ at qtac.edu.au.
2. Select ‘Log In’ and enter your details.
3. Select the Accept offer option.
4. Accept your offer.
5. Activate your student account.
6. Go to my.uq.edu.au/starting-at-uq and follow the instructions.
7. Get excited about starting at UQ.

Enrol in courses

1. Access your program rules, course list and other helpful information by logging in to my.uq.edu.au/starting-at-uq.
2. Choose your courses at my.uq.edu.au/programs-courses.
3. Enrol online at sinet.uq.edu.au.
4. Select preferred class times via My Timetable (in my.UQ portal).
5. Pay fees (see pages 67).

Prepare for Week 1

- Complete the steps on the Starting at UQ website: my.uq.edu.au/starting-at-uq.
- Attend a Getting Started session.
- Check if you need to attend any program sessions before Orientation Week.
- Pick up your student ID card after you have enrolled.
- Get answers to any remaining questions before classes start by emailing starting@uq.edu.au.

Get ready for the ultimate university experience

- Prep Week – jump-start your university journey.
- Orientation Week – get your first taste of #uqlife with fun-filled events
- Connect Week – join the social scene, make new friends and link in with your academic circle.
- Culture Week – experience UQ’s diverse culture and global networks.
- Success Week – learn about the resources available to help you succeed at UQ.
- Instagram (@uniofqld) or Snapchat (uniofqld) your UQ experience to your friends.
Fees and costs
Course fees and student contributions
Most undergraduate places for domestic students at UQ are funded partly by the Australian Government (Commonwealth support) and partly by you (student contribution). You need a Unique Student Identifier (USI) to obtain a Commonwealth supported place.

Fees are charged according to the courses you choose, not the program you’re enrolled in, so it’s not possible to publish a fixed fee for a program. Because most students can choose different electives during their program, costs will vary. However, indicative annual fees are listed with each program on our Future Students website to help you plan your budget.

If you’re an Australian or New Zealand citizen, or an Australian permanent humanitarian visa holder and have a Commonwealth-supported place, you may also qualify for the Higher Education Loan Program (HELP) to defer payment of your student contribution and Student Services and Amenities Fee (SSAF). You will need to apply for a tax file number, if you don’t already have one, in order to obtain a HELP loan.

International students pay full tuition fees. If you have a Commonwealth-supported place, your student contribution amount depends on the fee band level of the courses you choose (see table above right).

Commonwealth-supported fee bands

<table>
<thead>
<tr>
<th>BAND</th>
<th>AREA OF STUDY</th>
<th>ANNUAL STUDENT CONTRIBUTION*</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Law, accounting, administration, economics, commerce, communications, society and culture</td>
<td>$14,630</td>
</tr>
<tr>
<td>3</td>
<td>Dentistry, medicine, veterinary science</td>
<td>$11,401</td>
</tr>
<tr>
<td>2</td>
<td>Other health, allied health, built environment, computing, engineering, surveying, science, environmental studies, pathology, visual and performing arts, professional pathway psychology, professional pathway social work</td>
<td>$8,021</td>
</tr>
<tr>
<td>1</td>
<td>Agriculture, English, mathematics, education, clinical psychology, Indigenous and foreign languages, nursing, statistics</td>
<td>$3,985</td>
</tr>
</tbody>
</table>

*2022 figures only, based on a full-time (16 unit) workload; figures indexed annually

Monthly cost of living

<table>
<thead>
<tr>
<th></th>
<th>STUDENT LIVING IN ON-CAMPUS COLLEGE</th>
<th>STUDENT LIVING OFF-CAMPUS / STUDENT ACCOMMODATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rent</td>
<td>$2,000–$2,800</td>
<td>$480–$1,760</td>
</tr>
<tr>
<td>Utilities (gas, electricity, water)</td>
<td>included in rent</td>
<td>$150–$175</td>
</tr>
<tr>
<td>Food</td>
<td>included in rent</td>
<td>$320–$600</td>
</tr>
<tr>
<td>Mobile phone / internet</td>
<td>$80–$120</td>
<td>$80–$120</td>
</tr>
<tr>
<td>Public transport</td>
<td>$40</td>
<td>$50–$100</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$2,000–$2,960</td>
<td>$1,080–$2,755</td>
</tr>
</tbody>
</table>

*This table should be taken as a guide only. For the most accurate costs of living, visit my.uq.edu.au/starting-at-uq/student-finances/budgeting

Student Services and Amenities Fee
The Student Services and Amenities Fee (SSAF) is a compulsory fee that is used to subsidise, support or fund non-academic services for students, such as support services, advocacy, study skills, career development and employability. UQ levies the SSAF – which is capped at a maximum of $313 for 2021 – according to whether you’re an internal or external student, and full-time or part-time. The fee is indexed annually.

bit.ly/uq_ssaf

Keeping your costs down
• Investigate the financial support and fee payment options offered by Centrelink.
  servicesaustralia.gov.au
• Explore the scholarships on offer (see page 62).
• Enjoy UQ Union’s free and low-cost entertainment and activities, such as Morning Marmalade and Kampus Kitchen.
  uqu.com.au
• Get concessions and student discounts at participating retailers and institutions with your UQ student card.

Plan your finances
University is a valuable investment in your future. Knowing what it costs will help you manage your money.

Fees
Fees for 2023 are expected to be available from November 2022.
my.uq.edu.au/fee-schedules

It all adds up!
Don’t forget to budget for accommodation, books, study materials and transport. Insider Guides provides a helpful online Cost of Living Calculator to estimate your weekly, monthly and yearly living costs.
insiderguides.com.au/cost-of-living-calculator
## Program table explained

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>UQ CODE</th>
<th>MINIMUM SELECTION THRESHOLD 2022 ATAR / IB</th>
<th>LOWEST ATAR TO RECEIVE AN OFFER 2022 ADJUSTED</th>
<th>UNADJUSTED</th>
<th>DURATION</th>
<th>CAMPUS</th>
<th>HONOURS</th>
<th>DUAL PROGRAM AVAILABLE</th>
<th>ADMISSION REQUIREMENTS</th>
</tr>
</thead>
</table>

### QTAC CODE
A unique code number assigned by Queensland Tertiary Admissions Centre (QTAC) to each individual undergraduate university program. You will need to use this number on your QTAC application.

### UQ CODE
A unique identifying number assigned by UQ for each academic program.

### MINIMUM SELECTION THRESHOLD 2022 ATAR / IB
The minimum (adjusted) selection threshold is the minimum score that was considered for an offer of a place to all applicants.

**IB** – International Baccalaureate points.

**ATAR** – The Australian Tertiary Admission Rank (ATAR) is the standard measure of overall school achievement used in all Australian states and territories (with the exception of Queensland). It is a rank indicating a student’s position overall relative to other students. The ATAR is expressed on a 2000-point scale from 99.95 (highest) down to 0, in increments of 0.05. The ATAR replaced the Overall Position (OP) as the standard pathway to tertiary study for Queensland Year 12s in 2021.

### ADJUSTMENT FACTORS
Previously referred to as ‘bonus points’, these are a numerical value added to or used in combination with an ATAR. Common adjustment factors may include subject adjustments, enrichment studies, or educational disadvantage.

**Adjusted**
The lowest ATAR to which an offer was made to recent school leavers including any adjustment factors that may have been applied.

**Unadjusted**
The lowest ‘raw’ ATAR to which an offer was made to recent school leavers, excluding any adjustment factors.

### DURATION
The time it takes to complete a program when it is studied full-time.

**Full time**
The standard study load is eight units per semester. Full-time study is 75 per cent or more of the standard study load (i.e. six units per semester for most programs).

**Part time**
Part-time study load is less than 75 per cent of the standard study load (i.e. less than six units per semester for most programs).

### START SEMESTER
The academic year at UQ is divided into two main semesters. Semester 1 starts at the end of February and Semester 2 starts at the end of July.

### CAMPUS
One of three UQ teaching sites where the majority of lectures are held.

### HONOURS
At UQ, honours may be awarded as a one-year bachelor’s honours degree after you have completed a bachelor’s degree, or as a single bachelor’s honours degree typically taking four years of study. Some undergraduate programs allow eligible students to transfer to a bachelor’s honours degree at a defined point in the bachelor’s degree. This box shows whether honours is available with a program.

### DUAL PROGRAM
Two UQ degree programs undertaken at the same time (sometimes known as dual / parallel / combined / double degree). This box lists dual programs you can choose to study with a program.

### ADMISSION REQUIREMENTS
Some programs require you to have completed specific subjects (or their equivalent) at school. Some also have additional requirements.
Study options

UQ offers more than 140 exciting undergraduate programs to help build your dream career. For more details, check out our range of publications, or go to future-students.uq.edu.au

**Arts, Humanities, Social Sciences and Education**
- Advanced Humanities (Honours)
- Arts
- Communication
- Criminology and Criminal Justice (Honours)
- Education (Primary)
- Education (Secondary)
- International Studies
- Journalism
- Music (Honours)
- Politics, Philosophy and Economics (Honours)
- Social Science

**Health, Behavioural Sciences and Medicine**
- Biomedical Science
- Clinical Exercise Physiology
- Dental Science
- Exercise and Nutrition Sciences
- Exercise and Sport Sciences
- Health Sciences
- Health, Sport and Physical Education
- Medicine
- Midwifery
- Nursing
- Occupational Therapy
- Pharmacy
- Physiotherapy
- Psychological Science
- Social Work
- Speech Pathology

**Business, Economics and Law**
- Advanced Business (Honours)
- Advanced Finance and Economics (Honours)
- Business Management
- Commerce
- Economics
- Laws (Honours)
- Politics, Philosophy and Economics (Honours)
- Tourism, Hospitality and Event Management

**Science, Mathematics, Agriculture and Environment**
- Advanced Science
- Agribusiness
- Agricultural Science
- Biomedical Science
- Biotechnology
- Environmental Management
- Environmental Science
- Equine Science
- Mathematics
- Occupational Health and Safety Science
- Science
- Veterinary Science
- Veterinary Technology
- Wildlife Science

**Engineering, Design, Computing, Architecture and Planning**
- Architectural Design
- Computer Science
- Design
- Engineering (Honours)
- Information Technology
- Regional and Town Planning

**Central guides**
- Australian Undergraduate (pictured left)
- International Undergraduate and Postgraduate
  (international students can visit future-students.uq.edu.au/teachers-guidance-counsellors to access the latest international student guides)
Have a question about programs in this Guide?

Faculty of Engineering, Architecture and Information Technology
+61 7 3365 4777
enquiries@eait.uq.edu.au
eait.uq.edu.au

Faculty of Science
+61 7 3365 1888
enquiries@science.uq.edu.au
science.uq.edu.au

Have a question about living and studying at UQ?

Contact the Future Students Contact Centre
+61 7 3346 9872
ask@uq.edu.au
future-students.uq.edu.au

Have a question about entry requirements and admission to UQ?

Contact UQ Admissions
+61 7 3365 2203
admissions@uq.edu.au
future-students.uq.edu.au/admissions

Key dates

Tertiary Studies Expo (TSXPO)
RNA Showgrounds
Saturday and Sunday 16-17 July 2022

UQ Open Day 2022
St Lucia campus Sunday 7 August 2022
Gatton campus Sunday 21 August 2022

Semester 1, 2023
Classes commence
Monday 20 February 2023

CRICOS Provider 00025B

Disclaimer

The information in this Guide is accurate as at January 2020. However, the University has many programs and courses, and refreshes and updates its programs and course offerings from time to time and without notice. It is your responsibility to visit future-students.uq.edu.au for up-to-date information.

All costs and fees quoted in this publication are in Australian dollars (A$).