ENGINEERING, ARCHITECTURE AND INFORMATION TECHNOLOGY

2018
UNDERGRADUATE
TOP REASONS TO CHOOSE UQ

SUCCESSFUL GRADUATES
Higher than national averages for full-time graduate employment rates and salaries

GREAT EXPERIENCES
Long- and short-term overseas study exchange, vacation research programs and more

GLOBAL CONNECTIONS
Extensive graduate network, strong industry partnerships and many notable alumni
TOP REASONS TO CHOOSE UQ

**ACCESSIBLE LOCATIONS**
Three easy-to-access campuses – catch public transport, ride, walk or drive

**VIBRANT LIFESTYLE**
Dynamic sports and cultural activities, 200+ clubs and societies

**WORLD-CLASS FACILITIES**
Continuously improving teaching, learning, sporting and research spaces

**EXCELLENT TEACHERS**
More national teaching awards than any other Australian university*

**LEADING RESEARCH**
Global research powerhouse with all fields at or above world standard**

**HIGH-QUALITY PROGRAMS**
Most comprehensive range of programs in Queensland

*As at December 2016, UQ has received 122 Australian Awards for University Teaching
** 2015 Excellence in Research for Australia (ERA) assessment
Choose Engineering
As a UQ-qualified engineer, you’ll be highly sought after by employers in industry and research institutions all over the world. Our graduates are in the top band of engineering starting salaries in Australia, and many have gone on to senior positions within Australia and overseas, or postgraduate study. You could find yourself working in existing and new growth areas within research, development, design, manufacturing and operations that provide valuable products, processes and services.

Choose Architecture
UQ’s School of Architecture offers courses that reflect the dynamic nature of professional architecture and help you realise your potential to make a positive contribution in shaping our built environment and culture. Over the course of your degree you will have opportunities to get hands-on involvement in community-based projects with real clients. You will also have the opportunity to travel and study overseas. In 2016 our students were funded to take field trips to Malaysia, Hong Kong and India.

Choose IT
In a progressive and innovative industry such as IT, requirements are constantly changing. To ensure you graduate with current and relevant skills, we develop our programs in consultation with industry leaders via an Industry Advisory Board. You’ll be prepared to respond to constant progression and understand the many facets of IT. Our graduates are working for some of the biggest IT corporations around the globe, including Wotif, Telstra, Google and Microsoft.

WHY STUDY WITH US?

ANASTASIA MIROS
Bachelor of Engineering (Honours) (Electrical and Biomedical) New Product Industrialisation (NPI) Engineer, Cochlear Ltd

“A Bachelor of Engineering from UQ equips students with a broad range of skills that are applicable to a diverse range of industry positions.

The experiences gained throughout my degree ensured I was well-equipped for the engineering workplace. Specifically, university fostered cross-disciplinary engagement, high-level analytical and problem-solving skills, time management and self-driven learning.

Developing these diverse skills has allowed for flexibility in my career and enabled the opportunity to discover alternative career paths. By embracing change and challenges, I have experienced diverse opportunities in my career and discovered a passion for process – a field divergent from the original intent of my degree major.”
THE UNIVERSITY OF CHOICE
for women in engineering in Australia

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

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INNOVATION AND LEADERSHIP

Change the world through creative thinking, innovative technologies, and outstanding staff, students and alumni.

Innovation and leadership
We have long, proud traditions of innovation and leadership across student education and research. In just over a century, more than 27,000 engineering, architecture and information technology graduates have gone on to use their UQ education to have a significant impact on our state, our nation and across the world. We believe that lifelong success is fostered at UQ through great education – inspiring students to think differently, ask the difficult questions, be a positive influence and fulfil every ounce of their potential.

Teaching excellence
Our commitment to teaching guarantees that your experience will be rich and varied. To help you achieve success in your chosen field, you will be taught by a mix of internationally renowned lecturers, experienced industry professionals and leading researchers. To ensure you reach your full potential, you will also have access to academic advising sessions, guest lectures and some of UQ’s most active student societies.

World-class facilities
We’ve invested heavily in world-class facilities to ensure the best equipment, labs and expertise are available to you. You will have access to one of the fastest and most advanced information networks in the world, and modern teaching spaces that take advantage of the latest technology, including:
• modern lecture theatres, seminar rooms, design studios and laboratories
• 16 computing laboratories with 24-hour access to high-end workstations
• specialist laboratories in biomedicine, engineering, robotics, electronics, computer systems, communications, power systems, optics, signal processing and microwaves.
All of this means that you will enjoy the best learning experience possible.

Research impact
We’re about translating knowledge into action. With an annual research budget of $42 million, UQ’s Faculty of Engineering, Architecture and Information Technology provides a rich and diverse flow of breakthrough technologies that are helping to improve communities around the world. From novel hydrogen storage and next generation polymers to biomedical engineering and mining safety, our research outcomes are solving problems for local and international communities, and our industry partners. Our commercially oriented research has developed many novel and relevant technologies that have led to new commercial products via licensing or start-up companies, such as the Nanopatch and GroundProbe.

Inspiring you to fulfil every ounce of YOUR POTENTIAL
There is a wide variety of scholarships available to students studying within the disciplines of engineering, architecture and information technology. Students must apply to be eligible for scholarships.

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Purpose</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agility Applications Regional QLD ICT Scholarship</td>
<td>To encourage and support first- and second-year students from regional areas to pursue a Bachelor of Information Technology or Bachelor of Engineering (Honours) majoring in Software.</td>
<td>$8,000 for 1 year</td>
</tr>
<tr>
<td>Electrical Engineering Alumni Advantage Scholarship</td>
<td>To encourage and support first-year students undertaking the Bachelor of Engineering (Honours) program (including a dual program) in the field of Electrical Engineering from an ‘under-represented’ cohort – this means that the student will be facing financial disadvantage, and/or female, and/or Indigenous.</td>
<td>$3,000 for 1 year</td>
</tr>
<tr>
<td>ICT Excellence Scholarship in Information Technology and Electrical Engineering</td>
<td>To encourage and assist first-year students studying a Bachelor of Information Technology or Bachelor of Engineering (Honours) majoring in Electrical or Software.</td>
<td>$3,000 for 1 year</td>
</tr>
<tr>
<td>ICT Alumni Advantage Scholarship</td>
<td>To encourage and support first-year students undertaking a Bachelor of Information Technology or Bachelor of Engineering (Honours) majoring in Electrical or Software (including a dual program involving one of these) from an ‘under-represented’ cohort – this means that the student will be facing financial disadvantage, and/or female, and/or Indigenous.</td>
<td>$3,000 for 1 year</td>
</tr>
<tr>
<td>Kathy Hirschfeld Scholarship for Women in Engineering</td>
<td>To encourage and support a female student undertaking their first year of the Bachelor of Engineering (Honours) program.</td>
<td>$5,000 for 1 year</td>
</tr>
<tr>
<td>Leeanne Bond Scholarship for Women in Engineering</td>
<td>To encourage and support a female student in the first year of the Bachelor of Engineering (Honours) program.</td>
<td>$5,000 for 1 year</td>
</tr>
<tr>
<td>WSP Parsons Brinckerhoff Scholarship for Women in Engineering</td>
<td>To support female students undertaking their first year of the Bachelor of Engineering (Honours) who can demonstrate educational/financial disadvantage and/or geographic isolation.</td>
<td>$8,000 for 1 year</td>
</tr>
<tr>
<td>AE Brooks Travelling Scholarship in Architecture</td>
<td>To enable graduates from the Bachelor of Architectural Design or Master of Architecture programs to pursue outside Australia a program of work and study approved by the Head of the School of Architecture.</td>
<td>$5,000 (approximate)</td>
</tr>
<tr>
<td>RN Hammon Scholarships</td>
<td>To assist Australian Indigenous students to undertake post-secondary study in Queensland.</td>
<td>The value of the scholarship is determined each year</td>
</tr>
<tr>
<td>Faculty of Engineering, Architecture and Information Technology Year 12 Overseas International Scholarships</td>
<td>To assist international students who have completed senior high school overseas.</td>
<td>50 per cent tuition fee reduction</td>
</tr>
</tbody>
</table>

In the event of any conflict arising from information contained in this booklet, the material approved by the Faculty of Engineering, Architecture and Information Technology will prevail.

You may not think you are eligible for a scholarship, but with many, many different opportunities available, you should definitely take some time to explore your options and apply. You might be surprised at how many scholarships you are eligible to apply for!
The EAIT Scholars program provides the faculty’s top students in engineering, architectural design and technology programs with enhanced academic, industry and cultural experiences.

Engineering, Architecture and Information Technology (EAIT) Scholars are academically gifted students who aspire to take their degree to the highest possible level. The cohorts are defined as follows:

• Birrell Scholars (for Architectural Design students)
• Hawken Scholars (for Engineering students)
• Prentice Scholars (for IT students).

Students will be introduced to industry, community and corporate networks, and have the opportunity to further develop their skills and knowledge through priority access to research, international exchange and industry-sponsored opportunities.

The program also enables access to exclusive industry and research events including:

• annual leadership function
• industry networking colloquium opportunities
• exclusive Boardroom Lunches with senior members of industry
• student mentoring opportunities.

Through exposing this motivated and elite group of the faculty’s top students to new networks and opportunities, we aim to further develop their skills, knowledge and experiences, in preparation for long-term leadership positions.

Program membership
All high-achieving students are invited to apply for a UQ Vice-Chancellor’s Scholarship, UQ Excellence Scholarship, or EAIT International Scholarship when enrolling in an Engineering, Architecture or Information Technology degree. Those who are successful in their application for these scholarships will become EAIT Scholars for their first year of study at UQ. For students who are in their second year of study onwards, the top five per cent of each cohort (measured by GPA) will be selected and invited to participate in the EAIT Scholars program each year.

For more information
eait.uq.edu.au/eait-scholars
VALUE BEYOND THE CLASSROOM

Through our strong partnerships with alumni, industry, government and business, you’ll gain access to unique and innovative opportunities as a student and beyond.

Student opportunities

MEET a Mentor
MEET a Mentor is an exciting initiative for current third- and fourth-year students and UQ engineering and information technology graduates of more than ten years.

The program aims to connect students with established alumni to motivate, encourage, empower and transform the next generation of engineering and information technology professionals.

Students participating in the MEET a Mentor program will have the opportunity to:

• engage influential engineering and information technology professionals
• share the value of their expertise
• expand their networks
• give back and gain valuable experiences.

The program will assist with students’ career development and transition from university into the workforce, and engage business professionals in a mutually beneficial partnership.

For more information, please visit the website: eait.uq.edu.au/meet-mentor

UQ Idea Hub
UQ Idea Hub is a start-up pre-incubator for the aspiring, the inspiring and the ambitious.

The program brings together workshops, experienced mentors and a network of local and global innovators to help you grow your idea into a solution that matters.

Throughout the program, you will have the opportunity to form and test your early-stage ideas for potential commercial opportunity. You will also build networks with other students, idea makers and seasoned entrepreneurs for a strong, well-connected start to your entrepreneurial journey.

For more information, visit ideahub.uq.edu.au

Graduate opportunities

‘Leaders of Influence’ Alumni Talk Series
The EAIT ‘Leaders of Influence’ Alumni Talk Series engages high-calibre industry leaders to present to our alumni and community on current and critical issues that impact Australian and global engineering, architecture and information technology companies. Seminars are delivered in Brisbane, Sydney and Melbourne. Attendees can expect lively discussions, access to VIP speakers, and networking with fellow UQ alumni over light refreshments.

To stay up-to-date with upcoming events visit eait.uq.edu.au/alumni-events

Women in Engineering Alumni Network
Building on the success of the UQ Women in Engineering Program, and delivering on our promise to become the leading university of choice for women in engineering in Australia, our ‘Women in Engineering’ Alumni Ambassadors work in partnership with UQ to develop activities that engage their fellow alumni and foster a sense of UQ community and support among engineering graduates (male and female). Our Alumni Ambassadors deliver and host a range of social and structured non-exclusive, quarterly Brisbane-based events focused on issues of interest for women in the engineering industry.

For more information visit eait.uq.edu.au/women-engineering-alumni-committee
ENGINEERING AT UQ

Engineers create imaginative and visionary solutions to the challenges facing the planet to improve the world we live in.
Largest choice
OF ENGINEERING PROGRAMS
IN QUEENSLAND

Creative, bright
and inspiring people
ONE OF THE BEST ENGINEERING
SCHOOLS IN THE WORLD

World class
ALL ENGINEERING DISCIPLINES
RANKED WORLD-CLASS OR ABOVE
2015 Excellence in Research for Australia (ERA)
assessment

First Australian university
TO IMPLEMENT AN INTEGRATED BACHELOR/MASTER DEGREE IN
ENGINEERING PROVIDING ADVANCED COURSE CONTENT

$65,000
AVERAGE UQ GRADUATE
STARTING SALARY
Quality Indicators for Teaching and Learning (qilt.edu.au)

Exciting career opportunities
Discover the dynamic and adaptive career you can create with a UQ Engineering degree. From offshore oil and gas production facilities and high-rise commercial buildings, to establishing software development companies and leading major design teams, as a UQ-qualified engineer you can drive innovation to shape the future of our world.

Challenge yourself
The 21st century is an era of great global and local challenges. Climate change and clean energy, reliable water supplies, infrastructure for growing populations, sustainable resource development, and expanding information and communication advances are some of the many ground-breaking opportunities for a new generation of engineers.

Exceptional opportunities
As a UQ Engineering student, you can participate in international robotics competitions, study tours to China, national mechanical engineering competitions, international space forums, biomedical and environmental engineering forums, mining games, and the Formula One-style racing car competition where a group of students design, build and test a Formula SAE racing car. You also have the opportunity to join the UQ chapter of Engineers Without Borders and contribute to humanitarian engineering projects in developing communities. These are just some of the many advantages of being a UQ Engineering student.

Student societies
UQ Engineering has some of the most active student groups on campus, including many undergraduate engineering student societies. Student societies not only provide a voice for the engineering student community, but bring engineering students together through networking and social events. They also provide valuable opportunities to engage with industry – all of which serve to further enrich the engineering student experience.

International partner programs
In a first for Australian engineering education, UQ Engineering students have the opportunity to complete multiple internationally recognised degrees during the course of their studies. We have established agreements with two institutions, the Écoles Centrales in France and Technical University Munich in Germany, providing you with a unique double degree program and experience. These qualifications, skills and experience will equip you with outstanding career prospects to work anywhere in the world.

The Écoles Centrales Program
Representing five of France’s elite Grandes Écoles, the engineering schools in the Écoles Centrales Program offer world-class facilities, with campuses in Lille, Lyon, Nantes, Marseille and Paris. At the end of six years of study, you will be awarded a Bachelor of Engineering (Honours) and Master of Engineering from UQ as well as a Diplôme d’Ingénieur from the French institution. You must be able to speak French in order to participate in this program.

Technical University of Munich Program
The Technical University of Munich (Technische Universität München – TUM) provides you with a linked degree program where you will graduate with the integrated Bachelor of Engineering (Honours) / Master of Engineering from UQ, and a TUM Master of Science in Electrical Engineering and Information Technology degree.
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 areas in which we encourage you to think, explore and create.

**The Advanced Engineering Building**

The Advanced Engineering Building (AEB) enhances UQ’s ability to deliver practical, active learning styles for engineering students, and maximise global research opportunities that enable UQ to respond to major shifts in the world economy and global marketplace for innovative engineering solutions.

The $130 million building houses the state-of-the-art GHD Auditorium – a 500-seat lecture theatre supported by large-span timber trusses – as well as active learning laboratories, design studios and contemporary research facilities associated with global engineering research centres.

**State-of-the-art equipment**

**Virtual Immersive 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.

**Hypersonic Expansion Tube**

Travelling at several times the speed of sound is serious business for engineers designing materials for hypersonic space travel. As a UQ Engineering student, you’ll be able to test what happens in space right here on campus.
CAREERS IN ENGINEERING

WILLIAM JONES
Bachelor of Engineering (Honours) (Chemical) / Bachelor of Commerce
Supply Chain Analyst, BHP Billiton, Brisbane

I chose UQ as it is one of the leading Science, Technology, Engineering and Mathematics (STEM) universities in Australia.

Among the highlights of my degree was the exceptional quality of the teachers, the beautiful campus and how tight-knit engineering cohorts become, enabling students to create lifelong friendships that translate to industry networks following studies.

At UQ I learnt a variety of practice-relevant skills and knowledge, including how to solve complex problems. Along with an industry-renowned UQ qualification, these skills have enabled me to work for the world’s largest oil and gas company, the world’s largest diversified mining company, and a global tier-one professional services firm within the first two years of my career.

The most satisfying and exciting part of my current job as a Supply Chain Analyst is the constant problem solving – be it strategic, technical or any level in between - and the exposure to some of the biggest companies, biggest projects and most important industries in the world.

Did you know?
• Engineers at Levi reduced the water consumption of their ‘worn-in’ jean finishing process by 96 per cent which has resulted in 172 million litres of water saved to date. Source: www.levi.com
• Through the supply of fresh drinking water and sewage collection and treatment, civil engineers have saved more lives than any doctor, medicine or cure. Source: P. Goldberger, Why Architecture Matters, Yale University Press

Top 50 best paid jobs in Australia 2016 include:
• Mining production manager $179,439
• Petroleum engineer $185,808
• Mining engineer $119,564
• Engineering manager $116,732
Source: news.com.au

Be in high demand as the following industries are tipped to boom in the next five years:
• Road and bridge construction (0.7 per cent)
• Wind and renewable energy (2.1 per cent)
Source: news.com.au
UQ’S WOMEN IN ENGINEERING PROGRAM

Our world is made by engineers. At UQ, we’re inspiring young women to make a world of difference.

University-led and industry-supported, UQ’s Women in Engineering (WE) Program is a team of staff and students here to support you now and in the future.

There are many reasons why UQ is the university of choice for women studying engineering:

• Connect before day one: If you are offered a place in Engineering at UQ, a WE Student Leader will call and talk to you about anything from studying engineering to student life at UQ.

• Be welcomed from day one: We host an event during orientation week for first-year female engineering students – meet other students in your cohort and get to know our WE Student Leaders.

• Connect with other students: We host events so you can meet students in other cohorts. They can share their experiences and wisdom and support you during your studies and beyond.

• Inspire future generations: You can apply to be a WE Student Leader and be an integral part of our high school, university and industry activities and events.

• Remain connected: Please stay in contact throughout your degree, because we want to see all of your faces on graduation day.

Connect with industry

Our program is strongly supported by industry and you’ll have direct access to employers who are committed to increasing female participation in engineering.

Did you also know that at UQ, there are multiple scholarship opportunities, some specifically for women in engineering, that recognise and support your potential?

For more information, see page 5 or visit scholarships.uq.edu.au

Like to know more?
E: we@eait.uq.edu.au
T: +61 7 3365 3934
W: eait.uq.edu.au/we
Facebook: UQWomeninEngineering

Proudly supported by our program partners:
MONICA HYLAND
Bachelor of Engineering (Honours) (Civil) / Bachelor of Commerce (Finance)
Current student

Attending a UQ Women in Engineering event in Year 12 cemented my choice to study engineering. Since starting at UQ, the program has provided me with a network of like-minded students and industry connections.
At UQ, you’ll learn how to create change. From the established civil and mechanical areas to the more recent environmental and biomedical fields, each discipline will lead to meaningful careers solving both global and local challenges.

### Bachelor of Engineering (Honours)

You will build your understanding by applying basic science and engineering principles to engineering problems of commercial and societal importance. In addition to technical expertise, the program emphasises essential workplace skills such as communication, teamwork, project management, critical thinking and problem-solving.

As part of the Bachelor of Engineering (Honours) program, you will major in one of the 18 engineering majors described on the following pages, all of which are accredited by Engineers Australia.

### Why Engineering at UQ?

Engineers create practical solutions to the challenges facing the planet to improve the world we live in.

With a UQ Bachelor of Engineering (Honours) degree, you’ll be prepared with the knowledge and skills to make significant contributions to society and our community.

Our program offers:
- Queensland’s largest choices of engineering study areas
- a flexible first year for students who haven’t decided on an engineering major and wish to defer their choice to second year
- excellent employment opportunities, strengthened by UQ’s world-class reputation
- award-winning lecturers, degree programs and researchers
- hands-on experience and strong links to industry and world-leading research
- advanced theoretical knowledge and practical skills to meet industry needs.

### What you will study

A UQ Engineering degree is dynamic and challenging. It provides a strong foundation in mathematics, science and engineering design, empowering you to meet the demands of the future.
UQ OP Guarantee Scheme
The University of Queensland’s OP Guarantee Scheme ensures students who achieve an OP score in the range of 1-5 (or entry rank equivalent) and have completed prerequisite subjects are guaranteed a place in the Bachelor of Engineering (Honours), regardless of the published program cut-offs. The OP Guarantee is limited to the major QTAC offer round held in January, and some programs are excluded from the scheme.

Support for students
As a first-year engineering student, you’ll have exclusive access to the First Year Engineering Learning Centre, a social learning space equipped with the latest technologies and staffed by advisors. Academic advisors and tutors are available throughout semester and our staff provide support and advice from your first year of study. Advice on transitioning from high school to university, as well as assistance for international students commencing study in Australia, is also available. You can participate in our First Year Mentoring Program, where second-year engineering students pass on their knowledge and assist with the adjustment to university life. Other learning spaces are also available for later-year students throughout the engineering precinct.

MAX KOOPMAN
Bachelor of Engineering (Honours) (Software)
Software Engineer, Google

“When it came time to apply for uni, the choice for me was clear. I already spent every spare second programming, and I was truly lucky to get the chance to pursue it as a career. For me, I think I am drawn to the practical nature of Software Engineering, with every project bringing new and often unexplored challenges. I also love the fact that it can be applied to almost any field or industry, and can provide an almost instant tangible benefit.

I’ve been lucky enough to secure a job as a full-time software engineer with Google, and I’m really excited about what the future will hold. I’m really excited to be thrown in the deep end and be surrounded by some of the best minds in the industry, not just at Google but in Silicon Valley as a whole.”
It’s really exciting, from an engineering point of view you can develop something that no one has ever thought of before.

Through the powerful industry connections she made at UQ, Jessica landed a graduate engineering position at Boeing. Jessica is currently working on a project designing a next generation aircraft that will make air travel more cost-effective and accessible to everyone. By learning to see the world differently, Jessica is creating change.

JESSICA ORR
Bachelor of Engineering (Honours) / Master of Engineering (Mechanical and Aerospace)
Stress Analyst Engineer, Boeing
Your Bachelor of Engineering (Honours) degree

Your engineering degree is made up of four distinct parts:

- **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.

- **Engineering major**
  Choose a major and study courses specific to your career aspirations. There are 18 areas to choose from (refer to the table below and following pages).

- **Consolidate your study**
  This is where you consolidate your learning in your chosen major to match your individual career goals.

- **Apply your skills**
  Complete a research or industry-related project to apply the skills you’ve learnt throughout your degree.

### MAJORS

The UQ Bachelor of Engineering (Honours) program offers 18 majors in engineering, along with a number of minors that can be added to broaden your area of specialty.

- **The Bachelor of Engineering (Honours) majors**
  - Chemical*
  - Chemical and Biological
  - Chemical and Environmental
  - Chemical and Materials
  - Chemical and Metallurgical
  - Civil
  - Civil and Environmental
  - Civil and Geotechnical
  - Electrical
  - Electrical and Biomedical
  - Electrical and Computer
  - Mechanical
  - Mechanical and Aerospace
  - Mechanical and Materials
  - Mechatronic
  - Mining
  - Mining and Geotechnical
  - Software**

*Minor in Food Engineering is also available. ** Minor in Data Science is also available.
Gain a head-start in careers that require specialist skills and adaptability with UQ's integrated Bachelor of Engineering (Honours) / Master of Engineering.

Why study the integrated Bachelor of Engineering (Honours) / Master of Engineering at UQ?

An exciting addition to UQ’s Engineering programs, the Bachelor of Engineering (Honours) / Master of Engineering (BE (Hons) / ME) is Australia’s first five-year, Commonwealth supported engineering degree to integrate a semester-long industry or research placement into a degree with masters-level coursework.

Gain a clear advantage when applying for jobs that require advanced skills and capabilities.

The BE (Hons) / ME will prepare you to:

- secure globally competitive graduate positions and research higher degrees
- have the depth to be a technical leader in your area of specialisation
- have the breadth of experience to lead multidisciplinary teams.

What you will study

You will enrol and follow the same course outline as other Bachelor of Engineering (Honours) students for the first three years. You may also undertake a semester-long industry or research placement, either locally or overseas, during the fourth or final year, depending on your field of study. The fifth year will contain advanced-level specialist courses in your discipline area, design and research projects, and exposure to the grand challenges in engineering.

These courses are designed to provide specialist knowledge of the various disciplines and place you closer to the leading edge of technology. Industry needs graduates who can apply new technologies to existing and emerging industries. The masters courses will give you a clear and demonstrable advantage when applying for jobs that require advanced skills and capabilities.

The courses will be delivered in a diverse range of styles. The placement semester will connect you with industry/research relevant projects.

The option for placement during summer holidays adds flexibility; meaning that many things are possible, including overseas placements or hybrid industry/research projects where you work in industry or at a research institute. Your interest and career ambitions will be the driving force behind what you choose to do.

UQ Engineering has a proud history of innovation and leadership in engineering education, and the BE (Hons) / ME program will continue to position UQ engineers as industry leaders, both in Australia and internationally. Our existing industry partners have shown great enthusiasm for this program as a way of developing outstanding engineers.
Scholarships
Scholarships may be available for industry placements, and UQ travel scholarships may also be available for an overseas placement.

HECS-HELP support
The program is currently HECS-HELP supported for the entire five years of study for domestic students, as it is for the four-year Bachelor of Engineering (Honours). This is a feature of an integrated bachelor and masters program that does not exist for other postgraduate coursework degrees.

FIELD OF STUDY
The Bachelor of Engineering (Hons) / Master of Engineering fields of study include:
- Chemical
- Chemical and Biological
- Chemical and Environmental
- Chemical and Materials
- Chemical and Metallurgical
- Civil and Fire Safety
- Civil and Structural
- Electrical
- Electrical and Biomedical
- Electrical and Computer
- Mechanical
- Mechanical and Aerospace
- Mechanical and Materials
- Mechatronic
- Software

PROGRAM PATHWAYS

BE (HONS)
Entry via the Bachelor of Engineering (Honours)

BE (HONS) YEAR 4
Semester 1: Engineering courses, Design, Thesis and electives
Semester 2: Engineering courses, Design, Thesis and electives

BE (HONS) YEAR 5
Semester 1: ME level courses and electives or industry/research placement
Semester 2: ME Design/Grand Challenges/Professional Practice and ME-level courses and electives

BE (HONS)/ME YEAR 4
Semester 1: Engineering courses and electives
Semester 2: Industry/research placement or engineering course elective

GAIN A CLEAR ADVANTAGE
when applying for jobs that require advanced skills and capabilities
What you will study
Chemical engineers invent, design and manage products and processes that transform raw materials into valuable products such as petrol, plastics, instant coffee, pharmaceuticals and artificial blood. Using the latest knowledge of biology, chemistry and physics, chemical engineers ensure minimum loss of materials and energy consumption.

In studying this major, you'll have access to academic staff who are leaders in their fields, and who are working to find solutions to some of the world's most demanding issues. Their research, coupled with strong industry connections, ensure our teaching remains relevant to industry standards and demands.

Careers
Chemical engineers work in a wide range of industries, government departments and private consultancies. You can enjoy employment in areas including environmental protection, management and safety; natural resource utilisation and the energy sector; chemical, petroleum and petrochemical industries; biochemical, biomedical and pharmaceutical industries; computer-aided process and control engineering; advanced materials design and manufacture; minerals processing and related industries; food processing and biotechnology; and product design and development.

Achieve cleaner production performance and
TRANSFORM WASTE INTO RENEWABLE ENERGY
CHEMICAL AND BIOLOGICAL

What you will study
Chemical and biological engineering, or bioengineering, combines chemical engineering with additional knowledge of how to engineer biological systems at a molecular, cellular and tissue level. Bioengineers typically design and produce biomolecules, cell-based products and tissues, and work in a broad range of industries and with a broad range of products, from renewable fuels and plastics to biopharmaceuticals and medical devices. Bioengineering at UQ is offered in conjunction with chemical engineering, and our graduates are fully accredited as chemical engineers. This is because in the workplace, bioengineers often have to step into traditional chemical engineering roles to help organisations and industries make the transition from chemical to biological processes.

Careers
Graduates are in demand for design, operations and management positions. There are also jobs in industry research and development, or, with further study, academic positions in biological engineering.

CHEMICAL AND ENVIRONMENTAL

What you will study
Chemical and environmental engineers are accredited chemical engineers who have additional technical skills in waste management and resource recovery, water treatment and sustainable energy systems. They use these skills to achieve cleaner production performance and to assess the long-term effects of proposed products, processes and developments. As a chemical and environmental engineer, you’ll apply, assess and communicate a wide range of approaches to the development of sustainable systems, including indicators of sustainability and different methods of community consultation and engagement. You’ll have specialist skills in modelling and in analytical measurement in laboratory and field/industrial settings, including basic sampling design and data analysis.

Careers
Chemical and environmental engineers are particularly sought after to work in the water, waste management, resource recovery, energy and sustainable practice sectors.

CHEMICAL AND MATERIALS

What you will study
Chemical and materials engineering combines chemical engineering with additional specialist study in materials engineering. Materials engineering is concerned with the selection, processing and development of materials to design and make products. Materials – metals, alloys, ceramics, polymers and composites – give manufactured products their functional and aesthetic qualities. Materials engineers apply their knowledge of the behaviour of materials to improve both the processing and the properties of a particular product. They work across a broad range of industries on everything from your phone screen and running shoes to aircraft wings and artificial skin.

Careers
Materials engineers are usually employed in the materials processing and manufacturing sectors, including the automobile, whitegoods, steel, aluminium and polymer industries. Employment can also be found in biomedicine and electronics, as well as in energy and heavy industries.

CHEMICAL AND METALLURGICAL

What you will study
The dual major in Chemical and Metallurgical Engineering provides an excellent broad education in chemical engineering and specialist skills in metallurgy courses. Metallurgical engineers play a key role in ensuring a sustainable society. Almost everything in the material world – including our major energy sources – is derived from minerals, or recycled metals and materials. Metallurgical engineers develop, design and carry out sustainable processes that transform raw materials into useful, high-value mineral and metal products. As a metallurgical engineer, you’ll also design metal parts, solve problems and work on major, high-tech projects, with prospects for international travel. Metallurgical engineers often work closely with mining engineers.

Careers
Metallurgical engineers are usually employed in production operations, engineering design, consultancies, laboratories, marketing, finance and commerce, and research and development.
CIVIL

What you will study
As a civil engineer, you’ll be an expert in the planning, design, construction and maintenance of major infrastructure and built environments. Civil engineers work on everything from buildings, bridges, roads and harbours to dams, airports, utility supply and public health, and create beautiful and sustainable facilities that are designed to meet the needs of society. Civil engineers understand how natural phenomena behave and solve environmental and technical problems relating to how water flows, how waves break, how rivers can be controlled, how rainfall and wind effects can be measured, and how buildings can resist loads. In the civil engineering major, you can study in areas including structural, hydraulic, transportation and coastal engineering; geomechanics; hydrology; construction; and economics.

Careers
Civil engineers mostly work in private industry; federal, state and local government; consulting engineering firms; construction companies; mining companies; and research establishments in Australia and overseas. You can find yourself providing expert services to clients, advising financially and technically, and undertaking the planning, coordination and technology of projects, often from first concepts through to completion.
CIVIL AND ENVIRONMENTAL

What you will study
The Civil and Environmental Engineering dual major is designed to equip you with the necessary knowledge and skills to design and build tomorrow’s integrated, multi-centred sustainable cities. In both the developed and developing world, new technologies and engineering solutions are needed for sustainable development. Many advanced economies have recognised the urgency of finding these solutions and are developing new ‘sustainable infrastructure’ research initiatives. The Civil and Environmental Engineering major is made up of core courses from the Civil Engineering major and specialist environmental-systems engineering courses, which equip you with everything you need to address complex, international and multidisciplinary problems.

Careers
Civil and environmental engineers can find work across the private and public sectors. Civil and environmental engineers also develop sustainable buildings and precincts, create energy-efficient rapid transit systems, and provide populations with water and energy security.

CIVIL AND FIRE SAFETY*

What you will study
Fire safety influences almost every aspect of our built environment, from the design of industrial facilities and skyscrapers to the specific materials chosen to create cars and aeroplanes. The Civil and Fire Safety dual major combines civil engineering courses with the specialist study of fire safety engineering.

It provides civil engineering students with the necessary skills and knowledge to develop a comprehensive fire safety strategy for a broad range of project types. Areas of study encompass the components of fire – including ignition and fire growth – and how structures respond to fire. The major also provides insight into design principles for fire safety engineering.

You will also have opportunities to develop related specialist expertise in fire, wind and geotechnical engineering.

Careers
Civil and fire safety engineers are highly sought after by leading consultancies around the world to develop and design complex infrastructures using their specialised knowledge.
*Available only in the BE (Hons)/ME

CIVIL AND STRUCTURAL*

What you will study
This major can equip you with the necessary fundamental skills and knowledge of a modern structural engineer. Study advanced design courses including timber, composite, and concrete structural design, and advanced analysis courses including finite element, dynamic and optimisation analysis methods.

You will also have opportunities to develop related specialist expertise in fire, wind and geotechnical engineering.

Careers
You will find work in construction companies, consulting engineering practices and civil engineering service providers. You will be prepared to plan, design and implement structures such as buildings, bridges, tunnels, roads, airports and dams, ensuring adequate infrastructure and natural resources for communities now and in the future.
*Available only in the BE (Hons)/ME

CIVIL AND GEOTECHNICAL

What you will study
The Civil and Geotechnical Engineering dual major combines studies in civil engineering with additional specialist study and project work in geotechnical engineering. This major incorporates soil mechanics, rock mechanics and engineering geology, and will equip you with the expertise to approach complex, multidisciplinary problems involving earth materials. Civil and geotechnical engineers typically work on projects involving roads, landslides, pile foundations, excavations, spillways, tunnels and mining. The Civil and Geotechnical Engineering dual major is supported by a range of industry partners and you will learn from experts working in civil and geotechnical engineering.

Careers
Civil and geotechnical engineers work in a wide range of industries, government departments and private consultancies. Civil and geotechnical engineers can also work in design, operation, management, research and consulting, both in Australia and overseas.
What you will study
Electrical engineering is concerned with the design, construction, operation and maintenance of electronics and electrical energy infrastructure. This includes power generation and distribution, electrical installations in major building and mining projects, telecommunications infrastructure, aerospace and defence systems, medical imaging systems, and industrial and scientific instrumentation and control.

A vital feature of the program is its practical component. Through hands-on experience, you will learn the technical skills necessary to find solutions to a surprising range of challenges. From industrial to personal, you will be prepared to discover novel and unexpected ways to improve the quality of life and better protect the world’s assets.

Our graduates are in high demand. If you choose to study here, you will develop a combination of specialist skills and knowledge to make innovative contributions to our community.

Careers
You can enjoy a career in innovative environments, designing cutting-edge products and solutions for the power, information and communication industries. Career opportunities are found in the telecommunications and microwave industries, mining and transport sector, power generation and transmission industries, and in the government and defence sector. Many of our graduates establish their own companies quite early in their careers, or are working overseas.

DR MATTHEW PETOE
Bachelor of Engineering (Honours) (Electrical and Biomedical)
Part of a consortium of researchers who are working on the development of the Retinal Prosthesis or ‘Bionic Eye’

With an ageing population, our reliance on the healthcare system is increasing more and more each year. As the doctors and healthcare professionals of the baby-boomer generation begin to retire, we are witnessing a paradigm-shift in how we think about and address health issues. As the world around us begins to look to engineering and technology for solutions, so too does our healthcare sector. And as our alumni and researchers will tell you, it’s not a moment too soon.
ELECTRICAL AND BIOMEDICAL

What you will study
The Electrical and Biomedical Engineering dual major combines studies in electrical engineering with additional specialist study and project work in bioengineering. Biomedical engineering bridges the gap between technology, medicine and biology. It integrates physical, chemical, mathematical and computational sciences with engineering principles, with the ultimate goal of improving healthcare through advanced technology. From your first year, the dual major in Electrical and Biomedical Engineering builds foundational knowledge in engineering, mathematics, biology and physics. This is followed by more advanced coursework and laboratory training, combining engineering analysis and design techniques with the biology and physiology of cells and organisms.

Careers
Electrical and biomedical engineers are involved in the design, construction and development of health and monitoring devices or diagnostic systems (such as CT, MRI or ultrasound), and therapeutic systems (such as surgical lasers and tissue engineering). Our graduates also work with computer models of the human body (such as the virtual heart project), and with prosthetics and implants (such as cardiac pacemakers, defibrillators and artificial organs). Employment opportunities include hospitals, biotechnology companies, medical equipment manufacturers, research institutes and government health departments.

ELECTRICAL AND COMPUTER

What you will study
Computer engineering encompasses hardware, software and systems – how to build a computer-based device, how to program it and how to connect it to other devices to work together. Computer engineers are typically associated with the production of devices like iPads, laptops or PCs, but also play a vital role building computers that control machinery, medical instruments, cars, whitegoods, robots, communication equipment and satellites. As an Electrical and Computer Engineering student, you’ll learn about electrical engineering, computer engineering and information technology, while at the same time developing the advanced skills of a professional engineer.

Careers
As an Electrical and Computer Engineering graduate, you’ll have all the employment opportunities of a computer engineer, as well as further possibilities as an electrical engineer. Electrical engineers with in-depth knowledge of computer systems are in demand in every industry where advanced electrical and electronic equipment is designed, upgraded or even maintained. Our graduates have been employed as designers of electronic and computer hardware; as system integrators who build equipment requiring computer control; and as programmers who design and implement applications, ranging from software for embedded microcontrollers to the software used in information terminals.

Electrical engineers are crucial in advancing key challenges facing the 21st century:

ENERGY
INFORMATION
HEALTH
What you will study
Society relies on mechanical engineers to help us use the earth’s resources effectively and responsibly. Mechanical engineers design, manufacture and control all types of things that move. This includes everything from air, heat and energy flows to vehicles, devices and machinery. If there is a problem or a need to do things better, a mechanical engineer will identify, analyse and implement a solution. Mechanical engineering is one of the broadest areas of engineering activity.

Careers
Mechanical engineers are employed in diverse industries, including the automotive, aerospace, environmental, medical, power generation and building industries, to name a few. Our graduates work in design and development, testing and manufacturing, consulting firms, government agencies and educational institutions.

Employment opportunities in Australia and overseas range from very large mining, refining, construction and manufacturing companies to small companies in which you might be the only engineer. Some graduates start their own companies soon after they have gained the experience required to become a Chartered Professional Engineer (CPEng).
MECHANICAL AND AEROSPACE

What you will study
The Mechanical and Aerospace Engineering dual major combines courses in mechanical engineering with additional specialist study and project work in the aerospace and aviation industry. Aerospace engineering is concerned with the design, manufacture and operation of aircraft, launch vehicles, satellites, spacecraft and ground support facilities. It is a particularly sophisticated and innovative discipline because it involves designing aircraft and spacecraft that are lightweight but extremely strong. All students study aerospace propulsion, design and manufacturing, and then specialise in either the aeronautical or space engineering streams to obtain their dual major. You can study topics including flight mechanics, aerospace composites, space engineering, hypersonic aerodynamics and computational fluid dynamics.

Careers
Our graduates work in design and development, testing and manufacturing, consulting firms, government agencies and educational institutions. Employment opportunities in Australia and overseas range from very large aerospace, automotive, building, construction and manufacturing companies to small companies where you might be the only engineer.

MECHANICAL AND MATERIALS

What you will study
The Mechanical and Materials Engineering dual major combines studies in mechanical engineering with additional specialist study in materials engineering. Materials engineering is concerned with the selection, processing and development of materials to design and make products. Materials – metals, alloys, ceramics, polymers and composites – give manufactured products their functional and aesthetic qualities. Materials engineers apply their knowledge of the behaviour of materials to improve both the processing and the properties of a particular product. They work across a broad range of industries on everything from your phone screen and running shoes to aircraft wings and artificial skin, and in conjunction with mechanical engineering, improve the performance of machines and structures.

Careers
Employment opportunities in Australia and overseas range from very large mining, refining, construction and manufacturing companies to small companies.

MECHATRONIC

What you will study
Mechatronic engineers integrate mechanical engineering with electronics, computer systems and advanced controls in order to design and construct products and processes. Mechatronic engineers are typically involved with the design of automated and intelligent machines, including artificial intelligence systems, robotics, automated industrial machinery and avionics, and are employed in areas including research and development, mining, aerospace and defence, or by government and industry groups. This major provides a broad-based education in the basic principles of electrical, mechanical and computer engineering. A large number of electives cover areas including engineering analysis and design, engineering mechanics, dynamics and automatic control, signals and communication, and electrical hardware and computer software.

Careers
Mechatronic engineers work in multidisciplinary design teams in industry, manufacturing, and research and development. Mechatronic engineers are needed wherever there is potential for improvement through the integration of computer and electrical hardware with mechanical systems.

ALEX MOORE
Bachelor of Engineering (Honours) (Mechanical) / Bachelor of Commerce
Current student

“I chose to study at UQ because of its high status and methodical approach to first-year engineering. There is a lot of support in first year and getting you through the change to university lifestyle.

I think what I enjoy the most about university is everything else that happens around the program. The opportunities to study abroad and to work on extra projects with fellow students and academics make it seem not so much of a task to get a degree, but a bit of an adventure instead.

While studying my undergraduate degree, I’ve had the opportunity to travel all over Cambodia with Engineers Without Borders Australia. The idea of learning about different cultures while travelling was amazing. You don’t necessarily feel like you are learning because you are so immersed in different things around you, but you come home with so many new skills and knowledge of cultural diversity.”
MINING

What you will study
Mining is essential to the modern lifestyle that we enjoy today; just think of the number of mineral elements that go into making a smartphone. Mining engineers are concerned with the stewardship of the earth's limited mineral resources. They oversee the extraction of valuable minerals from the ground using safe and environmentally responsible methods. Mining engineering covers all phases of mining operations, from exploration and discovery, through to feasibility, development, production, processing and marketing, to mine closure and rehabilitation.

Mining engineers assess whether a new mineral discovery is of sufficient size and quality to warrant the costs of extraction, transportation and marketing. The mining industry is highly mechanised, highly automated and capital-intensive, and uses the most sophisticated technology available. The Mining Engineering major integrates theory with practice and involves advanced mathematics and earth and engineering sciences.

Careers
Minerals and energy commodities account for over 50 per cent of all Australian goods and services exports. The developing world will continue to need minerals and energy, and mining engineers who can apply new thinking to 21st century challenges. Graduate employment opportunities remain positive, with a 2015 Graduate Careers Australia survey reporting 76.3 per cent of all mining engineering graduates surveyed found full-time employment. Most mining engineers are employed by mining and contracting companies, initially at the mines where minerals such as gold, silver, copper, lead, zinc, uranium ores and coal are extracted. Some mining engineers choose to specialise in operations while others, such as technical specialists and senior managers, move to the major cities where head offices tend to be located. Mining engineers often work for international companies, leading to opportunities for overseas travel and employment.

PHOEBE LINDENBERG
Bachelor of Engineering (Honours) (Mining)
Mining Engineer, Resource Planning, BHP Billiton

"Mining engineering at UQ has always had a great reputation in the industry thanks to the amazing lecturers and their commitment to continually improving the degree. With this strong reputation and the deep connections UQ has with the mining industry, I was able to develop my professional networks from my first year of university. By the time I reached my final year, I had four years of on-site industry experience and had a job to go to after graduation. I love the job I have now, particularly being part of something bigger that makes a difference in the world. I also work in a really caring and flexible environment, which is brilliant, and the variety of work is great. Every day is different and I get to interact with a diverse range of individuals and groups. It means I am always learning."
MINING AND GEOTECHNICAL

What you will study
The Mining and Geotechnical Engineering dual major combines studies in mining engineering with additional specialist study and project work in geotechnical engineering. This specialisation incorporates soil mechanics, rock mechanics and engineering geology, and will equip you with the expertise to approach complex, multidisciplinary problems involving earth materials. Mining and geotechnical engineers typically work on projects involving roads, excavations, tunnelling and mining. The Mining and Geotechnical Engineering major is supported by a range of industry partners and you’ll learn from experts working in the field.

Careers
Graduates can enjoy employment in mining and geotechnical engineering consultancies, mining companies, and civil and mining contractors. You can also work in design, operation, management, research and consulting in Australia and overseas.

SOFTWARE ENGINEERING

What you will study
Software engineers design, develop and manage software systems. As our society becomes increasingly reliant on technology, and computers become integrated into machines and products like fridges to cars, one of our biggest challenges is how to create the necessary software to make computers useful. Software engineers use principles of computer science, engineering, design, management, psychology, sociology and other disciplines to design and manage large software systems. Team and individual projects are a focus of this major, which is an approach valued by our industry partners – and your future employers.

Careers
A career in software engineering will position you to work and collaborate in small and large multinational companies and start-ups, as well as specialised consulting organisations. You can find yourself designing and developing software for such things as GPSs, mobile devices, operating systems, web applications and enterprise systems.
ENGINEERING DUAL PROGRAMS

Dual programs offer the opportunity to combine different areas of interest and enable you to complete two degrees in a shorter amount of time.

A dual program gives you the flexibility to study several areas of interest at once. The additional knowledge and skills gained give you a competitive edge in the workplace and significantly broaden your career possibilities. Dual programs can also be completed more quickly than two separate degrees, as students complete the core components of each program.

In some programs you can choose to undertake additional courses during the summer semesters to finish the program even faster – by up to one semester.

**Engineering (Honours) / Arts**
Program duration: 5.5 years
This program allows combinations of the humanities and engineering. It is an excellent plan if you wish to combine languages, cultural studies and the behavioural sciences.

**Engineering (Honours) / Biotechnology (Honours)**
Program duration: 5.5 years
By combining these degrees, you will be provided with an ideal combination of skills for the production side of modern biotechnology. This program is available with the BE(Hons) (Chemical Engineering) and BBiotech(Hons) (Process Technology) only.

**Engineering (Honours) / Business Management**
Program duration: 5.5 years
By combining these two areas of study, you will attain not only a high level of engineering proficiency, but also gain additional valuable knowledge and skills to assist in effective and successful business management.

**Engineering (Honours) / Commerce**
Program duration: 5.5 years
By combining these two areas of study in a dual degree, you will be given a focused background in commerce, along with specific practical and theoretical understandings relevant to your chosen field in engineering.

**Engineering (Honours) / Economics**
Program duration: 5.5 years
An excellent combination if you want an option of working in business or government interfacing with engineering and technology-based industry.

**Engineering (Honours) / Information Technology**
Program duration: 5.5 years
Ideal if you wish to combine the theory and practice of modern computing with another field in engineering. This program is available with some dual and extended majors, and all single majors except Software Engineering.

**Engineering (Honours) / Mathematics**
Program duration: 5 years
Create a strong mathematics base for your engineering studies and equip yourself to work in both established and emerging areas of engineering.

**Engineering (Honours) / Science**
Program duration: 5 years
Engineering and science are complementary areas of study. Engineering considers the practical and useful applications of scientific knowledge. Science is about understanding the natural and physical world. This dual degree provides you with an extended science base for engineering if you are interested in knowing more about the science and mathematics underpinning engineering.

Note: All dual programs are available with all single majors unless otherwise indicated. Engineering dual or extended majors are only available within the Bachelor of Engineering (Honours), Bachelor of Engineering (Honours) / Bachelor of Science, Bachelor of Engineering (Honours) / Bachelor of Mathematics, or (for some majors) with the Bachelor of Engineering (Honours) / Bachelor of Information Technology.
NICK SMITH
Bachelor of Engineering (Honours) (Civil) / Bachelor of Commerce

I have always had a passion for maths and science and knew in Year 12 that I wanted to study engineering. I also enjoyed studying economics, and UQ provided me with the opportunity to combine my two interests. During my studies, I qualified for a 12-month exchange to the Norwegian School of Economics (NHH) in Bergen, Norway, where I was able to complete some courses in finance and economics as part of the commerce component of my degree. I had a fantastic year full of many amazing experiences, and also had the advantage of a European summer holiday between my semesters.
ARCHITECTURE AT UQ

Our rich mix of local and international design studios, including field trips abroad, prepares you for your global architectural career.
## International outlook

UQ architecture supports global mobility and cultural diversity. The school boasts an international community and networks. Our academics hail from Portugal, India, Italy, Belgium, Turkey, East Africa and Australia. You will be taught by a mix of internationally renowned scholars, experienced practitioners and talented architects. Our commitment to teaching guarantees that your experience will be rich and varied.

Our student body is even more diverse. One in four of our students have travelled to UQ seeking the international and high-quality education we deliver. You will also have the opportunity to travel and study overseas. In the last three years, our students enjoyed field trips to Hong Kong, the US, Japan, India, Myanmar, Malaysia and Sri Lanka. Funding from the federal government supported most of these trips.

### Quality programs

UQ Architecture is one of Australia’s leading institutions for architectural education and research. Our comprehensive two-tier program is professionally accredited and consists of a three-year undergraduate degree (Bachelor of Architectural Design) and a two-year professional entry coursework degree (Master of Architecture).

Our degrees are aligned with international benchmarks in architectural education and incorporate the requirements for your future registration as an architect. The structure of our studio-based design courses ensures that you have choice and the ability to develop areas of special interest.

UQ was ranked as one of the top four universities in Australia for Built Design and Environment in the 2015 Excellence in Research for Australia (ERA) assessment, ensuring that your curriculum is underpinned by new knowledge.

### A bright future

The latest Australian Bureau of Statistics (ABS) quarterly labour force data shows jobs in architectural services are a leading driver of new employment, according to analysis by Bank of America Merrill Lynch. With 19,800 jobs in architectural services created in 2016, the sector topped the nation for the creation of new jobs. Queensland is one of the fastest growing regions in the Asia-Pacific and recent graduates are quickly employed.

Our graduates become registered architects and can be found leading major design practices in Australia and abroad. Our alumni are also editing Australia’s premier architecture journal, managing property development and building companies, and working as architectural photographers and visualisers. We are proud of our alumni and celebrate their successes.

### Highly awarded teachers

You will be taught by a mix of internationally renowned scholars, experienced practitioners and talented architects. Our academics have won numerous awards for their excellent teaching.

Our teachers have also received competitive grants to develop innovative teaching materials, including a current project for teaching technology that visually reveals the construction process in three-dimensional space and through time. Our commitment to teaching guarantees that your experience will be rich and varied.
Contribute to our built environment with a deep understanding of architectural design and communication, history, society and technology.

**What is Architectural Design?**

Conceiving new buildings requires that you learn to think spatially and communicate convincingly through drawings and models. Through design, you will test your imagination and propose environments for living, working and playing.

Architectural design requires a synthesis of ideas that respond to client and community needs, and an inherent concern for the quality of living and working environments.

**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:

- utilise 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.

**Career opportunities**

With predicted growth in the architectural profession, graduates have excellent employment opportunities in architectural practices along with a wide variety of other creative fields. UQ Architecture graduates are not only architects; they are fashion designers, magazine editors, project managers, academics and more.

**International experience**

The UQ Abroad program provides you with an opportunity to study for one or two semesters overseas and experience other cultures and approaches to architecture, as well as improving your foreign language skills.

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### COURSES

**Year 1**
- Architectural Communication 1
- Architectural Design 1
- Architectural Technology 1
- Architecture in the Western Tradition
- Buildings in History and Culture

**Year 2**
- Architectural Design 3
- Architectural Design 4
- Architectural Technology 2
- Architectural Technology 3
- Architecture in Society
  - Modern Architecture and the Metropolis

**Year 3**
- Architectural Design 5
- Architectural Design 6
- Architectural Technology 4
- Architectural Technology 5
- Two of four electives:
  - Aboriginal Architecture
  - Architecture in Asia
  - Architecture in Australia
  - Theories in Architecture

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**2017**

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**Duration** 3 years full-time

**Location** St Lucia

**Entry requirements** Queensland Year 12 or equivalent, including English

**QTAC code** 711202

**Delivery mode** Internal

**Full-time workload** 40 hours per week

**Commencement** Semester 1 start only

**Accreditation** Australian Institute of Architects - Student Membership
Whether it was wooden blocks, Lego bricks or pillows and blankets, making my own spaces was always fun. Not knowing there was a profession for it, I continued through school, creating spaces and imagining what the future might look like.

Discovering the profession of architecture opened the gate to new opportunities. After completing my first year at UQ, I have grown to love architecture and the broad range of skills that I am learning.
Bachelor of Architectural Design 3rd Year, Hotel revitalisation with refugee settlement, library and retail premises, Alice Langholt

Bachelor of Architectural Design 2nd Year, Museum for the architect Frank Lloyd Wright, Jiacheng Cheng
Bachelor of Architectural Design 3rd Year, Singapore residences and public plaza, Emily Wyatt
Master of Architecture, Hong Kong transient worker accommodation, Yolande Vorster
INTERNATIONAL OPPORTUNITIES

UQ and the School of Architecture offer you many options for overseas experiences, such as field trips, exchange programs and UQ Abroad.

An international discipline
We strongly encourage you to travel overseas as part of your studies with the School of Architecture. The UQ Abroad program offers you the exciting experience of studying overseas for up to one year on exchange, while gaining credit toward your degree. Overseas study can be undertaken in either the Bachelor of Architectural Design or the Master of Architecture. The University has exchange agreements with almost 200 universities in 41 countries, including the US, the UK, France, Germany and Italy.

Why go overseas?
Spending part of your program overseas opens up an exciting array of opportunities you may never have thought possible, and is especially beneficial when combined with foreign language skills that you have learnt. Some benefits of having an overseas study or work experience include:

Professional benefits
• broaden the scope of your degree
• gain a different perspective on your field of study
• discover new career opportunities
• improve your foreign language skills.

Personal benefits
• experience a different culture first hand
• increase your understanding of the world and gain a global outlook – a quality highly regarded by employers
• make lifelong friends from different parts of the world
• learn more about yourself and your capabilities
• study and gain employment overseas.

Travel Abroad Design Studios
In 2016, a group of UQ Architecture students travelled to Penang on a New Colombo Mobility Grant. The trip was part of the elective course Architecture Field Experience. The fortunate 18 architecture students were selected from the third-year Architectural Design course, which is part of the Bachelor of Architectural Design program.

George Town, the capital city of the Malaysian state of Penang, provided an opportunity to experience a multicultural society within a well-preserved South-East Asian colonial heritage site of significant civic, religious and shop-house buildings that date from the 18th century of British settlement.

Led by UQ Architecture Lecturer Leonie Matthews, the group was supported by local architects and heritage practitioners, with many making time to meet and discuss their understanding of George Town.

On returning to Australia, students developed their schemes in the design studio before curating an exhibition of their work, titled Stories From Penang.
I chose to study at UQ as it was the highest-ranked university in my area. My undergraduate experience at the School of Architecture provided me a broad design-focused and hands-on skill set. The best part of university for me however was not the set of skills I graduated with at the end, but the many lifelong friendships I made along the way. These friendships will undoubtedly form important business partnerships later in my career.

At UQ I had some incredible experiences, including participating in a student exchange to the Technical University of Munich. My exchange to Germany was by far the most challenging and enriching experience I had at UQ. I was also chosen to participate in the 2016 G200 Youth Forum held in Garmish Partenkirchen; my role at the forum was ‘Minister for Environment’ in Committee III ‘From Consumer-based Society towards Value-based Society’.

Over the course of my undergraduate degree, I received a Student Exchange Scholarship, a UQ Advantage Scholarship, was named as a Birrell Scholar, and received the Dean’s Commendation for Academic Excellence nearly every semester of my degree.

My UQ qualification, high overall GPA, as well as the professional mentors that I gained while studying, helped me to secure my first graduate position at a prestigious architecture firm, m3architecture. Securing this position has enabled me to apply the many skills I have learnt at UQ to real-world situations.
UQ Architecture does more than teach and research. We curate national and local exhibitions and conferences, and host lecture series, symposia and other events that advocate for architecture and design.
Student exhibition
The School of Architecture’s annual exhibition allows students to showcase their work and network with professional architects.

Students present their drawings, models and computer simulations at this annual event. The exhibition also allows professional architects and alumni to meet the next generation of UQ architects, and forms an important part of professional training for your future career as an architect.

Our exhibition is annually sponsored by leading practices and businesses. Our primary exhibition sponsor is Cox Architecture. The 2017 Exhibition will be held in early December at the UQ School of Architecture and is open to the public. Prospective students are encouraged to attend.

UQ Architecture Lectures
Each year the School of Architecture, in collaboration with the State Library of Queensland’s Asia Pacific Design Library, coordinates a lecture series featuring internationally renowned speakers, which inspires and provides insights into the design processes and solutions of contemporary architects.

The lecture series is not just about presenting established superstars, but discovering rising ones, engaged in the generation of new knowledge.

The 2017 series will include speakers from Singapore, the US, Indonesia and Turkey. For more information on the lecture series visit architecture.uq.edu.au/events

Birrell Scholars opportunities
The school offers the academically high-achieving Birrell Scholars a number of opportunities designed to connect students with the architectural profession, as well enrich their learning experiences.

In 2016, the Birrell Scholars visited the HASSELL Studio, where architects from local practices joined them to share their career experiences. During the afternoon, students had the opportunity to present their recent design work, discuss employment opportunities and learn more about the participating practices.
Winter Sleep-out
In August 2016, UQ Architecture students, alumni and staff ‘slept-out’ to raise money to combat homelessness. The school teamed with local women’s homelessness charity, Second Chance Program, and Wandering Cooks in West End. The efforts raised over $18,000 for Second Chance, which reported that it has been able to continue funding programs to assist homeless teen mums based on the donation.

Since its inception, the school has raised almost $50,000 through the sleepout.

UQ Architecture lecturer Michael Dickson said that both the charity and students benefit from this event. “We teach students about homelessness in academic subjects, but giving them the opportunity to hear from Second Chance about the very real difficulties that their clients face and how they can make a difference in their lives is important too. We want students to go out and become practitioners who make a difference.”

Social Outreach Studio
In the Social Outreach Studio, students work with communities on design challenges to deliver real benefits for people facing social or economic disadvantage.

You will have the opportunity to work in remote and regional areas with organisation and communities that the school has strong existing partnerships with. As a student architect, this will help you learn to meet different project challenges and understand the specific cultural needs of your clients.

When students participate in the Social Outreach Studio design course, there is funding to help with the cost of materials, travel and accommodation.
UQ Architecture emphasises the importance of practical skills so that you can realise your most imaginative ideas through models, sculptures and structures.

Working physically with materials gives you the confidence to experiment in a unique manner. Our studio teaching model recognises that architectural ideas are best tested by hands-on construction at multiple scales.

Our curriculum and facilities are designed to support you, from the making of models, to furniture and the construction of small structures. You will be taught by academics and architects whose work explores the potential of new digital technologies of fabrication and new materials along with traditional methods.

In our studio courses, you will work back and forth between drawing and making, thinking and talking, presenting your ideas and receiving helpful advice. Learning to communicate your vision is a central part of the course and one that our students excel in, regularly winning prizes and invitations to exhibit their work.

At the end of each semester we invite architects, our Adjunct Professors and clients to review your work and give you feedback. This is a great opportunity to communicate your design ideas and become part of the architectural community.

Sulcus Loci installation
Sulcus Loci was an immersive interactive installation designed and built by students from the faculty’s Interaction Design and Master of Architecture courses in collaboration with sculptor Svenja Kratz and composer Eve Klein. It was built in our CoLAB for an exhibition at the State Library of Queensland.

Students worked with architect Kim Baber in a research studio studying ‘Optimised Geometries’. Students undertook a series of hands-on studies with soap bubbles, t-shirt fabric and plaster models, followed by detailed exploration using digital modelling software.

Sulcus Loci showcases the impressive image library generated by researchers of Queensland Brain Institute’s Microscopy Unit. The final form of was a response to naturally occurring patterns and ordering systems like those within the human body.
FACILITIES

UQ Architecture’s practical and virtual learning laboratories allow you to indulge your imagination and help you to see your ideas come to life.

**Studios**

Studio-based design courses make up half of your curriculum. Our studios enable you to work with friends on collaborative projects, to learn from what each other is doing, and to carry out large and messy projects that you could not do at home.

**Social Space**

The heart of our community is our Social Space, where you can make a real coffee and meet with your friends or the academic staff. It has been designed by m3architecture for exhibitions, seminars and casual meet-ups.

**Laboratories**

The Collaborative Design Laboratory provides facilities and materials for the construction and testing of building components and structural elements, as well as architectural and structural models.

To support your coursework and research studies, our computers are regularly updated to meet the latest hardware and software requirements. Comprehensive visualisation and modelling software for architectural studies are available including Autodesk suite with Revit, Autocad, 3D Studio and Maya, Rhino, Archicad, Microstation, SketchUp, Adobe Creative Suite and the Office suite.

UQ provides students with free email accounts and internet access, and you can also check online for the availability and lab status of computers.

**Workshop**

Our highly qualified workshop staff will help you bring your imagination to life. The model-making and joinery workshop offers the latest technology, allowing you to make prototypes from scale models to full 1:1 scale. All new students are given a comprehensive induction to the workshop, to ensure they can use the available equipment safely and proficiently.

The workshop is equipped with a wide range of fixed and portable tools, a CNC flatbed router, several laser cutters, ceramic powder printer, 10 desktop 3D printers and two robot arms.

We also have a comprehensive range of laser scanners for you to use in research and design. These cutting-edge tools allow you to capture environments in 3D and produce point clouds that can be implemented into CAD software for visualisation or manipulation.

The workshop makes available a wide range of model-making materials.
BECOMING AN ARCHITECT

Following the completion of your Bachelor of Architectural Design, become a registered architect 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.

Career opportunities

The Master of Architecture is a requirement for registration as an architect. Graduates must undertake two years of practical experience before they can legally practice as architects, and pass the Architectural Practice Examination of the Board of Architects of Queensland. Employment opportunities include, but are not limited to, positions in architectural offices, consultancies related to the built environment, and academic teaching or research positions.

Professional affiliations

On graduating from the Bachelor of Architectural Design degree, you will be eligible for membership with the Australia Institute of Architects.

Lucinda Smith

Master of Architecture
Graduate Architect, Cox Architecture, Brisbane

I see university as a period of opportunity to explore and experiment creatively without real-world restrictions such as (client) time and money. I chose to study at UQ because I understood that the UQ School of Architecture prioritised design, emphasising the value of the creative process.

The degree was a balance of the different aspects of professional practice, exploring technological innovation and learning practical, manual skills, but with design remaining the primary focus. Design innovation was celebrated, and the creative freedom we were allowed meant I found my degree exciting and rewarding.

In my role with Cox Architecture I’ve worked over a range of areas from urban-scale projects and master planning, to concept design for mixed-use towers, working alongside the in-house graphics and 3D visualisation teams.

I find my job really rewarding because it combines research, problem-solving, creative output and communication in the architectural context. It’s really varied work and is always challenging, with every new job providing the opportunity to consider new groups of people, how they operate and what they want.
INFORMATION TECHNOLOGY AT UQ

At UQ we know what it takes to blaze the next trail in information technology. Get the solid tech foundations and skills the industry demands, and become part of the creative, vibrant and important world of technology.

At UQ, you’ll learn the PROGRAMMING LANGUAGES, ALGORITHMS AND INFORMATION STRUCTURES that will prepare you to solve future IT challenges across your entire career.
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 areas in which we encourage you to think, explore and create.

Studios
• Laboratories and workshops to support prototyping in design projects, including 3D printing, laser cutting, professional image and video editing software, and a multitude of sensors and microelectronic devices.
• Dedicated student spaces with 24-hour access for collaborative work and individual study.

Virtual
• Computer and network infrastructure with gigabit/s connectivity, large-scale disk storage, and several high-end multi-processor servers.
• High-speed wireless networking.
• A dedicated team of technical support staff.
• Self-directed study area where you can plug in your own computer at any time.
• Access to the internet, laser printing, photocopying facilities and large-scale print facilities.
• Access to industry-based software such as CORE, one of the tools used in the Boeing Systems Engineering Teaching Laboratory.

Industry-focused programs
In a progressive and innovative industry such as IT, requirements are constantly changing. To ensure you graduate with current and relevant skills, we develop our programs in consultation with industry leaders via an Industry Advisory Board. You’ll be prepared to respond to constant progression and understand the many facets of IT.

Teaching excellence
Our award-winning teaching staff have helped make UQ one of the top teaching and learning institutions in Australia. UQ’s IT programs feature in the top tier of global universities, ranking 51st in the 2016-2017 QS World University rankings.

Go global
Be part of a truly international discipline and enjoy a career that can take you anywhere.

Practical experience
At UQ, we focus on making you workplace-ready. Many of our programs offer industry placements that not only count as part of your degree, but allow you to gain valuable experience and network with potential employers. You’ll graduate confident and ready to commence your dynamic career in IT.

Learning
UQ offers a wide range of IT majors within the Bachelor of Information Technology, and you can also include IT majors as part of an Engineering degree. You’ll be prepared to work with current technologies and programming languages, as well as those that haven’t been developed yet.

Studio-based learning
UQ’s studio approach to learning involves group work, problem-solving, virtual and physical prototyping, peer review, presentations and portfolios.

IT professionals work in multidisciplinary teams while addressing open-ended, real-life design projects. At UQ, we simulate this environment by giving you the opportunity to undertake at least four studio project subjects across your degree. You will integrate and reinforce your learning by applying knowledge. This approach to learning is firmly embedded in the Bachelor of Information Technology.

Industry lectures
Each semester, guest speakers from the IT industry visit UQ to talk about their work and the latest IT trends. Guest speakers from past semesters include IT professionals from Google, Suncorp and software provider SAP.
INDUSTRY CONNECTIONS

Enhance your student experience through direct access to potential employers.

UQ Innovation Showcase and Interaction Design Exhibit
You’ll have the chance to showcase your final-year project at the annual UQ Innovation Showcase and the Interaction Design Exhibit. Business and government representatives attend both events, providing a unique opportunity for industry to interact with UQ IT graduate talent.

Cooperative Education for Enterprise Development (CEED) Placement Program
The CEED Placement Program integrates industry-based training with the Bachelor of Information Technology by allowing students to complete their final-year project in industry.
You’ll gain invaluable industry experience through applying theoretical knowledge to a real-life project. You’ll be responsible for the planning and management of a project to completion, typically working on-site for three to four days per week throughout the semester. You will be co-supervised by an industry mentor and an academic advisor at the University, and will also receive a tax-free scholarship. Many students go directly into graduate careers as a result of their project.

Internships
UQ industry partners such as IBM, Google and SAP offer a number of different paid industry experience programs. You can access the industry placements during semester breaks or by deferring your studies. Many students have been successful in gaining graduate employment through these work experience programs.

Credit for professional industrial certification
If you wish to complete or have completed industrial certification courses licensed by major IT companies, you can gain credit towards your undergraduate or postgraduate program.
Credit is available for selected accredited Microsoft, CISCO and SAP certifications.

Industry advisory boards
Practising IT professionals are actively involved in ensuring UQ’s IT programs meet the requirements of industry. Our Industry Advisory Board meets on campus to consider trends in IT, user experience design and engineering, and to plan curriculum changes. Industry partners also provide feedback on UQ graduates’ progress.

Employer visits
Every year, numerous IT professionals attend the UQ Innovation Showcase and Interaction Design Exhibit to examine student work and meet potential future employees. Industry partners also sponsor final-year studio projects. In addition, UQ runs a student and graduate employment program that provides students with information about job vacancies, an online career hub, career events and international opportunities.

UQ Idea Hub
UQ Idea Hub is a start-up pre-incubator for the aspiring, the inspiring and the ambitious. The program brings together workshops, experienced mentors and a network of local and global innovators to help you grow your idea into a solution that matters.
You will have the opportunity to form and test your early-stage ideas for potential commercial opportunity. You will also build networks with other students, idea makers and seasoned entrepreneurs for a strong, well-connected start to your entrepreneurial journey.
When I started at UQ, I didn’t know what I wanted to do. UQ has a good reputation, as well as a wide range of programs to choose from and change between, and this definitely influenced my decision. I changed multiple times, including from a Journalism program to Arts to a dual degree of IT and Arts, so my experience and success really highlights the benefits of this flexibility.

When applying for my current job, the technical experience and knowledge from my Bachelor of IT combined with my demonstrated writing ability, cultivated within my Bachelor of Arts, gave me an edge over other applicants.

I am proud of my diverse range of skills and even now, more than ten years after completing my studies at UQ, I still draw on the knowledge I learnt at UQ to help me in my career.

LUCAS COSTI
Bachelor of Information Technology (Information Systems) / Bachelor of Arts (History, Peace and Conflict Studies)
Senior Technical Writer, RedHat, Brisbane
The future needs fast movers, big ideas and people with creativity and talent. UQ’s Bachelor of Information Technology will give you the specialised skills and knowledge to meet the needs of a rapidly changing world.

**Why study Information Technology at UQ?**

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.

**What you will study**

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.

**Your future in information technology**

With an IT degree, your career possibilities are endless. IT 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. You can also be involved in managing sophisticated computing facilities, such as distributed computer systems implemented over complex computer networks, or business information systems supported by large databases. Your knowledge and skills in IT can also take you abroad, working internationally.

With teaching informed by the latest research, you’ll develop the ability to process data or information in order to solve problems, and study programming languages, algorithms and information structures, to be job-ready for just about every industry. Besides technical skills, you’ll also learn team dynamics, presentation skills and project management.
SARAH NELSON
Bachelor of Multimedia Design*
Experience Designer, ThoughtWorks

I had always been interested in design, and during high school I enjoyed using technology as a medium to present my creativity in an interactive way. I loved doing Flash and web projects, as I was able to make a product that others could use and enjoy.

I chose UQ because of its reputation as the best university in Queensland, and its gorgeous campus. I really enjoyed living at Grace College during my time at UQ due to the extra-curricular activities and the community I was a part of. I loved being a part of the various societies at UQ, including UQ Dance, Uni Impact and the U-Cue pool society, as well as the team projects that I was involved with as part of my coursework. We made a lot of interactive products, some of which we showcased to the public. Particularly, I am proud of an interactive floor that I designed and made with my group, which enabled people to dance, paint and discover different ways of interacting with it.

* Sarah graduated with a Bachelor of Multimedia Design in 2014. This program has now been replaced with the Bachelor of Information Technology (User Experience Design)
INFORMATION TECHNOLOGY MAJORS

COMPUTER SYSTEMS AND NETWORKS

What you will study
Distributed computing platforms and communication technologies have a profound impact on the design, development, reliability and performance of computer applications. With the increasing variety of computing devices (including embedded computing devices, sensors, smartphones, laptops and workstations) and multiple networking technologies that connect these devices, there is a growing demand for virtualisation of computing platforms and operating systems to manage this heterogeneity. This major will provide you with an understanding of how software is controlled on one or many computers, including security, networking and operating systems. It is a strongly technical major, requiring strong conceptual and programming skills. Courses focus on programming, computer architecture, computer networks, operating systems, distributed computing and systems security, as well as a variety of distributed software applications (internet applications, mobile computing, embedded computing and ubiquitous computing).

Careers
You can find yourself working in software development companies, business enterprises, government departments and research organisations, and have careers in the security, design and management of new cutting-edge computer systems, and integration of large-scale distributed computing systems.

ENTERPRISE INFORMATION SYSTEMS

What you will study
Enterprise information systems play critical roles in large, sustainable and innovative businesses and organisations. A successful enterprise information system is a system that is incorporated with the core business of, and becomes a critical part of, enterprise. You will learn not only how to create large, effective and efficient information systems, but also how to incorporate business processes and management knowledge into the systems' development in order to maximise its applicability and performance.

Careers
As an Enterprise Information Systems graduate, you can expect to work in software development companies and/or companies where information systems are deployed, which includes almost all business and government organisations. Job titles for the enterprise information system specialisation typically include Business Information Analyst, Database Developer, Database Administrator, IT Project Manager and Software Engineer.

SOFTWARE DESIGN

What you will study
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. These applications, tools and systems are often part of large and complex IT landscapes. For example, banks need sophisticated databases, web interfaces and secure network communication in order to carry out their business. Such companies need the services of IT professionals capable of designing, implementing, evolving and testing software systems that are often very large, with complex functionality and interconnections to other systems.

Careers
Software Design graduates can expect to work in all areas of the IT industry. Job titles typically include Software Engineer, Software Developer and Software Development Manager.

SOFTWARE INFORMATION SYSTEMS

What you will study
Information systems are integral to almost every business and government organisation. In this major you will develop the skills to design and build the information systems that are used everywhere in our modern life: in retail, banking, healthcare, transport, education, entertainment, science and engineering.

The courses in this major will span the lifecycle of information systems, including data acquisition, modelling, storage retrieval, transformation, presentation, and analytics. The major will enable you to work as a software professional to produce reliable, secure, scalable and user-friendly information systems.

Careers
Software Information System graduates can expect to work in software development companies and/or companies where information systems are deployed, which includes almost all business and government organisations. Job titles for the software information system specialisation typically include Database Developer, Information Analyst, Database Administrator and Software Engineer.
What you will study
The vast majority of IT is designed to be used by people in all walks of life. From mission-critical commercial software to personal fitness apps and casual games on a smartphone, a user experience (UX) designer is concerned with how the technology should be designed so that it is appropriate for its users. This major is intended for students who want to take up careers in the multi-skilled and interdisciplinary field of human-centred design. UX designers are increasingly sought after across all sectors of IT, where the combination of people skills along with creativity and technical ability produces graduates who are prepared for the rapidly changing future of technology design. Courses studied in this major focus on design skills and creativity, programming and prototyping in different media. Design skills are consolidated in the Bachelor of Information Technology’s design computing studio courses.

Careers
Graduates are employed in the technology sector with the responsibility for developing and improving systems to be engaging and user-friendly. Job titles in the field include User Interface Developer, User Experience Designer, Usability Specialist, Human Factors Analyst, User Researcher and Human Interface Developer.
JAMES DOYLE
Bachelor of Information Technology (Software Information Systems)
Consultant (IT Advisory), EY (formerly Ernst & Young), Brisbane

Being able to live on campus in a residential college was one of the key reasons why I chose to attend UQ. I lived at Union College and this meant I was very close to the facilities where I was studying and attending classes, and I was able to meet and work with like-minded students every day, which I loved.

The opportunity to complete projects with real-world clients and gain practical experience while studying was also an attractive factor for me when choosing UQ. UQ is a first-class university with award-winning lecturers, and I feel that my experiences there equipped me with the skills necessary to excel in my career and broader industry.

In my second year I participated in a unique cross-faculty course that involved prototyping a ‘news’ app. Groups were assembled from IT/Multimedia and Journalism/Arts students to come up with a revolutionary idea and build a digital prototype of the solution. This course embraced the concept of multidisciplinary collaboration between students with varying capabilities and skills, which is precisely what employers expect of graduates: the ability to collaborate with colleagues and clients.

My advice for future students is to be bold and confident! Experience all that UQ can offer you: join a club or society, or have an in-depth discussion with a tutor about a particular subject. Don’t be afraid to get involved! I developed some amazing friendships with other students and teaching staff at UQ and those are the people who will support you through your journey at UQ and open up doors to exciting opportunities beyond the classroom.

Did you know?
• Digital technologies is one of the fastest growing parts of Australia’s economy.
• Australia’s Information and Communications Technology (ICT) workforce is forecast to rise from 628,800 workers in 2015 to 695,400 in 2020, representing an average annual growth rate of 2.0 per cent (compared to 1.4 per cent for the workforce as a whole).
• Woolworths employs an ICT workforce comprising over 2000 internal and external professionals. According to Chief Information Officer Clive Whincup, “there is no aspect of Woolworth’s business that isn’t touched by technology everyday.”
  Source: Australia’s Digital Pulse 2016 (Deloitte/Australian Computer Society)
• 8 of the 10 most valuable brands in the world are tech companies.
  Source: Business Insider, 2016

The 20 best high-paying jobs in America for 2016 include:
• #14 Information technology manager
  Mean annual salary: $136,280
  Projected growth (2014 to 2024): 15 per cent
  Source: businessinsider.com

Be in high demand as the following industries are tipped to boom in the next five years:
• IT security consulting (6.0 per cent)
• Smartphone app developers (2.2 per cent)
• Data storage services (5.9 per cent)
  Source: news.com.au
## OTHER PATHWAYS TO A CAREER IN IT

### BACHELOR OF ENGINEERING (HONOURS)

#### Why study engineering as an IT option?
If you pursue in-depth studies in the traditional areas of software and hardware, you will find the four-year Bachelor of Engineering (Honours) degree provides a respected qualification for entry into either the IT or engineering professions.

#### What you will study
The Bachelor of Engineering (Honours) program offers the largest choice of engineering majors in Queensland. IT-related majors are listed as follows:

- **Software Engineering**
  - You will study the complexities associated with large-scale, high-quality software: technical construction; size and complexity; cooperation between developers, clients and users; and evolution of software over time to maintain its value.

- **Electrical and Computer Engineering**
  - You will develop skills in electrical engineering, computer engineering and information technology, in conjunction with professional skills.

- **Mechatronic Engineering**
  - This major provides a broad-based education in the basic principles of electrical, mechanical and computer engineering. You can choose from a range of electives covering areas such as engineering analysis and design, engineering mechanics, dynamics and automatic control, signals and communication, electrical hardware and computer software.

#### Duration
4 years full-time; part-time equivalent available to Australian residents and citizens

#### Location
St Lucia

#### Entry requirements
Year 12 or equivalent English, Mathematics B, plus one of Physics or Chemistry. Both Chemistry and Physics, and Mathematics C, are recommended.

#### QTAC code
717001

#### Delivery mode
Internal

#### Applicable major
Software Engineering; Electrical and Computing Engineering; Mechatronic Engineering

#### Honours
Available as part of the standard program. Students are awarded the class of honours based on their overall academic performance in engineering courses.

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### BACHELOR OF SCIENCE (COMPUTER SCIENCE)

#### Why study Science as an IT option?
Advances in many areas of modern science are increasingly driven by IT.

Including IT 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 a program to your individual needs and select courses from science, information technology and other disciplines across the University.

#### What you will study
In the Bachelor of Science you can study:
- a computer science major (single or extended), which provides core IT courses in programming and information systems
- a dual major in computational science. In this major, the emphasis is on science. You select any single major from the Bachelor of Science program and combine it with a number of computational science courses that emphasise the use of IT as a tool to facilitate solving scientific problems.

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# Prerequisites are expressed in terms of Queensland Year 12 subjects.

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A dual program gives you the flexibility to study several areas of interest at once. The additional knowledge and skills gained will give you a competitive edge in the workplace and significantly broaden your career possibilities. Dual programs can also be completed more quickly than two separate degrees, as students consolidate the core components of each program.

Applicants for UQ dual programs must satisfy prerequisites and entry score requirements for both programs. You apply through normal QTAC application procedures. The appropriate QTAC application codes are listed here.

In some programs you can choose to undertake additional courses during the summer semesters to finish the program even quicker, by up to one semester.

**Business Management/Information Technology**
Program duration: 4 years
QTAC Code: 710401
By combining these two areas of study, you will develop expertise in a niche field that offers a wide range of employment options and excellent opportunities for overseas employment.

**Commerce/Information Technology**
Program duration: 4 years
QTAC Code: 711621
By combining these two areas of study in a dual degree, you will get a focused background in commerce, along with specific practical and theoretical understandings relevant to your chosen field in IT.

**Engineering (Honours)/Information Technology**
Program duration: 5.5 years
QTAC Code: 717701
This dual program is ideal if you wish to combine the theory and practice of modern computing with another field in engineering. This program is available with Engineering single majors in Chemical, Civil, Electrical, Materials, Mechanical or Mining Engineering, and dual or extended majors in Electrical and Biomedical, Electrical and Computer, and Mechatronics.

**Information Technology/Arts**
Program duration: 4 years
QTAC Code: 733201
This program allows combinations of the humanities and IT. It is an excellent plan if you want to combine languages, education, communication or other areas of interest with an IT base.

**Information Technology/Science**
Program duration: 4 years
QTAC Code: 733301
An excellent combination if you want to a career that involves the technical understanding of IT and in-depth knowledge in one or two scientific disciplines.

**Mathematics/Information Technology**
Program duration: 4 years
QTAC Code: 714411
Apply your specialised mathematical knowledge and analytical skills to solve computational and data processing problems.
Explore your future at UQ

Visit us online
Find out about your dream program, how to apply, scholarships, life at UQ and upcoming events.

future-students.uq.edu.au

Chat with us live
Our friendly student advisors are waiting to chat with you about study and life at UQ.

uq.edu.au/ask

Give us a call
Ring our dedicated call centre or book a call back for support and advice.

+61 7 3346 9872

Ask us a question
Email us your query and receive helpful advice about study and life at UQ.

ask@uq.edu.au
Why study overseas?

- Improve your foreign language skills
- Broaden your work and study options
- Enhance your employability
- Establish a global network of friends
- Gain credit towards your UQ program
- Choose from 200 exchange partners in 41 countries

UQ Abroad offers a wide range of overseas experiences, including semester-based student exchange, short-term study, internships and volunteering.

uq.edu.au/uqabroad

YOUR GLOBAL ADVENTURE
See the world differently with UQ Abroad
TIMOTHY BAUER  
Bachelor of Architectural Design  
Graduate

As a person who strives to achieve academically, I was initially attracted to study at UQ due to its outstanding international reputation and high global ranking. When I began comparing architecture as my potential field of study, I felt UQ offered a more innovative, creative and specialised program. However, having so far completed two years of my bachelor program at UQ, I now truly appreciate that UQ has much more to offer.

One of the major highlights of my time spent studying at UQ was the opportunity to study abroad at the University of California, Berkeley, in my second semester of my second year. I am immensely grateful for the UQ Abroad program, as this opportunity has been the most educational experience, exposing me to a different culture and way of learning.
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:
• intending to study on a student visa, or
• 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 recognised upper secondary or equivalent Year 12 studies to the required standard
• satisfied individual program requirements (e.g. specific subject prerequisites, auditions or interviews)
• satisfied English language requirements. If you do not meet these criteria, you might consider taking the Foundation Year bridging course offered by International Education Services (IES) or English language training offered by the Institute of Continuing and TESOL Education (ICTE-UQ).

Tuition fees
UQ has program-based 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.

Fee information
W: future-students.uq.edu.au/apply/international/tuition-fees

Other expenses
All international students applying to study in Australia must have a student visa and study full-time, on campus. Please consider expenses such as visa and medical (pre-departure) fees, tuition fees, general living expenses, return airfares, and Overseas Student Health Cover (OSHC) when you plan your budget.

Applying to UQ
How to apply
W: future-students.uq.edu.au/apply

Want more information?
If you would like to know more about your study options at UQ, feel free to ask a question through our enquire online form and one of our UQ advisors will respond to you. Feel free to register for an advisory session, and if you are in Brisbane, why not sign up for a campus tour to see our beautiful campuses?

We also have a range of publications, including the international undergraduate and postgraduate student guides to help you.

Ask UQ
W: future-students.uq.edu.au/ask

Advisory sessions
W: uq.edu.au/international-students/advisory-sessions

Campus tours
W: future-students.uq.edu.au/campus-tours

Program guides
Open Day 2017

St Lucia 6 August | Gatton 20 August

Open Day is the perfect opportunity to experience UQ.
Find out about programs and courses, explore the campus and facilities, meet staff and current students, and enjoy the range of fun activities at this free event.

Visit the website
Visit the website before the day for a copy of the program, directions to the campus and to create a personalised plan. uq.edu.au/openday

Download the app
Available from the App Store or GooglePlay, the UQ Open Day app provides access to your personalised plan and interactive maps to use on the day.

Ask us a question
Email our friendly staff any questions you have about the event. openday@uq.edu.au
YOUR FINANCES

Understanding the costs involved will help you be better prepared for university life.

Fees and costs
Course fees and student contributions
When you study at university, at the start of each semester or teaching period you are charged a fee for each course you enrol in. Most undergraduate places at UQ are Commonwealth supported, i.e. funded partly by the Australian Government (Commonwealth support) and partly by you (student contribution). You qualify for Commonwealth support if you are an Australian or New Zealand citizen, or an Australian permanent resident and have a Commonwealth-supported place (CSP). International students pay full tuition fees.

If you have a CSP, the amount you pay for a course (your student contribution amount) depends on the fee band level of the course (see table below).

It is not possible to publish a fixed fee for a program, because fees are charged according to the courses you choose, not the program you are enrolled in, and most students can choose different electives during their program.

Indicative annual fees (based on average first-year enrolment patterns) are listed on our Future Students website to help you plan your budget.

Fee calculator
To help you estimate your course fees for a study period, UQ has an online Fee Calculator. Fees for 2018 are expected to be available from December 2017. Before you enrol, faculty academic advisors can help you develop a study plan.

Future Students
W: future-students.uq.edu.au/study/find-a-program

Indicative Student Contribution Bands and Amounts*

<table>
<thead>
<tr>
<th>BAND</th>
<th>AREA OF STUDY</th>
<th>ANNUAL* STUDENT CONTRIBUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Law, accounting, administration, economics, commerce, dentistry, medicine, veterinary science</td>
<td>$10,596</td>
</tr>
<tr>
<td>2</td>
<td>Mathematics, statistics, computing, built environment, health, science, engineering, surveying, agriculture</td>
<td>$9050</td>
</tr>
<tr>
<td>1</td>
<td>Humanities, behavioural science, social studies, education, foreign languages, visual and performing arts, nursing</td>
<td>$6349</td>
</tr>
</tbody>
</table>

* 2017 figures only, based on full-time (16-unit) workload; figures indexed annually

Proposed higher education reforms
The Australian Government intends to finalise revised higher education reforms for 2018 by mid-2017. Visit the Study Assist website to view 2018 updates as they become available.

Study Assist
W: studyassist.gov.au

International students: Refer to page 62 for fee information.

Student Services and Amenities Fee (SSAF)
In 2011, the Australian Parliament passed legislation allowing universities to charge a fee for non-academic services such as sporting and recreation activities, employment and career advice, child care, financial advice, and food services. UQ levies the SSAF – which is capped at a maximum of $294 for 2017 – according to whether you are an internal or external student, full-time or part-time. The fee is indexed annually.

SSAF

Fee calculator
W: feecalculator.app.uq.edu.au
Centrelink Student Services
The Australian Government provides three income-support payments for Australian tertiary students: Youth Allowance, Austudy, and ABSTUDY.
You can apply for these payments at any Centrelink Customer Service Centre. Other schemes include:
- Student Start-up Scholarship or Loan
- Relocation Scholarship
- Interest-free advance loan where part of the allowance is paid as a lump-sum advance
- Pensioner Education Supplement (PES)
- Low Income Health Care Card
- Fares Allowance
- Child Care Benefit (CCB) or Rebate, or Jobs, Education and Training (JET) Child Care Fee Assistance.

Keeping your costs down
• Investigate the financial support and fee payment options offered by the Australian Government
• Apply now for a tax file number, which you will need to obtain a HELP loan (see ato.gov.au)
• Explore the scholarships on offer (see scholarships.uq.edu.au)
• Enjoy UQ’s low-cost entertainment and activities, and visit their secondhand bookshop (see uq.com.au)
• Ask UQ’s Student Services about finding accommodation (see accommodation.uq.edu.au)

Other government assistance
HECS-HELP
If you are a domestic student in a Commonwealth-supported place, you may be eligible to receive HECS-HELP.
HECS-HELP is an Australian Government loan scheme. Eligible students may access a HECS-HELP loan to pay their student contribution amounts. You do not have to start repaying your HECS-HELP debt until you earn above a certain income level ($54,869 for the 2016-17 income year). Loan repayments are then taken out of your pay as additional tax. You need to supply your tax file number to apply.

SA-HELP
SA-HELP is a loan scheme that helps you pay for the SSAF. If you use SA-HELP, the amount will be added to your accumulated HELP debt. You can take out a SA-HELP loan even if you do not wish to take out any other HELP loan. You require a tax file number to obtain SA-HELP.

HECS-HELP and SA-HELP Information
W: studyassist.gov.au

Centrelink
W: humanservices.gov.au
ADMISSION INFORMATION

You must satisfy prerequisites and have a sufficient entry score (OP or entry rank) to study undergraduate programs at UQ, but there are alternative pathways for entry if you do not meet these requirements.

How to apply
Apply for UQ undergraduate program admission through the Queensland Tertiary Admissions Centre (QTAC).

Check the QTAC Guide or the QTAC website for details on how to apply and what entry requirements you need. Free print copies are given to all current Queensland Year 12 students and some interstate students, or you can buy a copy from QTAC directly.

You may list up to six program preferences, but you will only receive one offer - for your highest preference that you are eligible for. When applying, make sure you place programs in order of personal preference, putting the one you most want to study first, and the one you least desire last.

See the QTAC website for 2017 application deadlines.

TIP: Check that you have met all academic and other entry requirements and have met any specific program deadlines.

There are a range of UQ publications and study area guides available to help you choose the right program for you.

To order a specific publication or guide, visit bit.ly/orderUQguide

The step-by-step process

STEP 1
Choose

Search for your program
• Search in this guide on pages 8-56
• Visit future-students.uq.edu.au

TIP: Check that you have met all academic and other entry requirements and have met any specific program deadlines.

STEP 2
Apply

Prospective students
• Apply by visiting qtac.edu.au

Current students at other universities
• Apply by visiting future-students.uq.edu.au/apply

TIP: Prior to applying, check that your home institution will give you credit.

STEP 3
Accept

How to accept your offer
1. Log in by clicking ‘Applicant login’ at qtac.edu.au
2. Select Login and enter your details
3. Select the Accept offer option
4. Accept your offer
5. Go to uq.edu.au/startingatuq and follow the instructions
Prerequisites

Subject prerequisites are the Queensland Year 12 subjects (or interstate/overseas/tertiary/bridging course equivalents) required for individual programs.

Some programs have additional prerequisites (e.g. auditions or the Undergraduate Medicine and Health Sciences Admission Test (UMAT)).

Entry scores

Entry scores include Overall Positions (OP) and entry ranks. Eligible applicants are selected for admission to a program in order of merit: those with the highest entry score are selected first, and so on until the program quota is filled.

The minimum OP or rank required for entry varies from year to year and is determined once applications have been processed and places allocated. While it is difficult to predict exactly what OP or rank will be needed for entry to a program, you can use the previous year’s cut-offs as a guide.

Special entry programs

If you identify on your QTAC application as being of Aboriginal and/or Torres Strait Islander descent you will be invited to apply via the ATSIS alternative entry scheme for a place at UQ. This option takes into account more than just your OP score: it also considers your work history, personal references and life experience.

If you have experienced financial hardship or other difficult circumstances that have negatively impacted your studies, you may be eligible for special entry to UQ. Contact UQ Admissions for more information.

UQ’s Bonus Rank Scheme gives current Year 12 high school students bonus points towards their entry score for completing certain approved subjects or courses. Contact UQ Admissions for more information.

English language requirements

If you are from a non-English speaking background, you will need to provide evidence of English proficiency. You can do this by passing Queensland Year 12 English (or interstate/international equivalent), or by other means. Visit bit.ly/UQ-eng-prof for more information.

Programs for high school students

UQ’s Enhanced Studies Program (ESP) lets you complete a university course at either St Lucia or Gatton campus during Semester 1 of Year 12. The program is offered free of charge, boosts your tertiary ranking by one point, and you may even receive credit for the course you completed if you subsequently go on to study at UQ: see uq.edu.au/esp

The Young Scholars Program is another opportunity to discover, learn and engage with UQ’s academic community and like-minded students from across Queensland. See uq.edu.au/younghscholars

Other opportunities include the Institute of Modern Languages (IML) summer intensive sessions: see iml.uq.edu.au/highschool.html and a range of faculty workshops and seminars: see uq.edu.au/schools/activities-for-schools

Alternative entry

If you did not complete Year 12, did not achieve a high enough entry score for your preferred program, or are a mature-aged applicant, there are alternative entry pathways to UQ. Contact UQ Admissions for advice.

Improving an entry score (upgrading)

If you are not offered a place in your preferred program and want to improve your entry score or meet subject prerequisites, you can accept an offer in a less competitive program with fewer prerequisites and try to improve your entry score. This is called upgrading.

We recommend you complete one full year of bachelor degree study to upgrade to higher demand programs because the entry ranks allocated to study totalling less than one full-time year are capped. Depending on your academic performance your new entry rank could be higher than your previous rank.

For more information on how to improve your entry score, contact UQ Admissions.

UQ Admissions
W: uq.edu.au/study/admissions
E: admissions@uq.edu.au
T: +61 7 3365 2203

How to enrol

1. Access your first year planner available at uq.edu.au/startingatug to find out what you must study
2. Choose your courses (visit myAdvisor at uq.edu.au/myadvisor for help)
3. Enrol online via mySi-net at sinet.uq.edu.au
4. Plan your timetable and sign-on to classes
5. Pay fees

Preparing for Week 1

- Research your course resources
- Come along to Orientation Week for fun activities and information about your courses
- Get your student ID card
- Attend faculty or school information and welcome sessions
- Get any remaining questions answered before classes start (visit future-students.uq.edu.au/ask)
YOUR FUTURE OPTIONS

When your undergraduate program is complete, you may want to pursue further study, and you will find a range of postgraduate study options to choose from at UQ.

Postgraduate study

UQ offers both coursework programs and research higher degrees (RHDs) at postgraduate level.

Both will give you specialised knowledge, provide a significant advantage in the employment market, upgrade your qualifications, enhance your promotion potential, or pave the way for a career in academia.

Postgraduate study
W: uq.edu.au/study

Coursework programs

Postgraduate coursework programs include graduate certificates, graduate diplomas, coursework masters, extended masters and professional doctorates, and require that you complete prescribed courses and assessment. Some programs include a research component, but mostly they comprise lectures, laboratories, tutorials, assignments and examinations.

Graduate certificates, graduate diplomas and masters (by coursework) programs may be studied across a wide range of disciplines either individually or within a suite of programs. Depending on your academic background, you may enter a masters program directly, or be asked to apply for a graduate certificate, before progressing to a graduate diploma or a coursework masters.

Research higher degrees

An RHD involves undertaking a significant research project and producing a thesis. You may also have to undertake some coursework. RHDs include the Master of Philosophy (MPhil), which takes one-and-a-half to two years to complete; the Doctor of Philosophy (PhD), which takes three-and-a-half to four years; and the Doctor of Biotechnology (DBiotech), which takes three years to complete. To be awarded these degrees you must produce either a 40,000-, 50,000- or 80,000-word thesis of original research.

Graduate School
W: uq.edu.au/grad-school

MicroMasters

UQ has joined forces with other leading international universities to offer MicroMasters, a series of courses designed to advance your career and offer a path to an accelerated masters program.

Recognised by industries for real job relevancy, MicroMasters are delivered via the edX platform, a non-profit online learning destination founded by Harvard and MIT.

UQ’s Leadership in Global Development MicroMasters is the first MicroMasters course to be offered by UQ, with more in the pipeline. The MicroMasters is a prerequisite for UQ’s new Master in Leadership in Global Development, commencing in 2018.

Students can also gain credit towards their UQ Master of Business by completing the MITx MicroMasters Credential in Supply Chain Management.

To find out more, visit the edX website.

edX MicroMasters
W: edx.org/micromasters

STANDARD PATHWAYS TO AND THROUGH UQ

PRE-TERTIARY LEVEL*

QUEENSLAND YEAR 12
(high school equivalent)

TERTIARY PREPARATION PROGRAM
(UQ College)
OR BRIDGING PROGRAMS**

UNDERGRADUATE LEVEL

UNDERGRADUATE PROGRAMS ****
• Associate degree***
• Bachelor degree
• Dual degree

CONCURRENT DIPLOMA

UNDERGRADUATE DIPLOMA

HONOURS

RESEARCH HIGHER DEGREE PROGRAMS (RHD)
• Master of Philosophy (MPhil)
• Doctor of Philosophy (PhD)
• Doctor of Biotechnology (DBiotech)

POSTGRADUATE LEVEL

COURSEWORK PROGRAMS ****
• Graduate Certificate
• Graduate Diploma
• Coursework Masters
• Professional Doctorate
• MicroMasters

* Other entry methods may be possible: contact UQ Admissions or see uq.edu.au/study/docs/domestic/entry-options.pdf
** For more information about approved bridging programs, please access the Bridging Programs Domestic Admissions Information Sheet at uq.edu.au/study/docs/domestic/bridging.pdf
*** The Associate Degree in Business is designed as either a UQ-accredited standalone qualification, or as a pathway to the Bachelor of Business Management.
**** Although postgraduate coursework degrees can lead to an RHD, applicants also require relevant experience or research experience. View the full list of entry requirements here: graduate-school.uq.edu.au/uq-research-degrees
MORE STUDY OPTIONS

UQ offers more than 60 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, Communication, Education and Society**
- 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

**Business, Economics and Law**
- Advanced Finance and Economics (Honours)
- Business Management
- Commerce
- Economics
- International Hotel and Tourism Management
- Law (Honours)
- Politics, Philosophy and Economics (Honours)

**Engineering, Architecture and Information Technology**
- Architectural Design
- Engineering
- Information Technology

**Health**
- 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

**Science**
- Advanced Science
- Agribusiness
- Agricultural Science
- Biomedical Science
- Biotechnology
- Environmental Management
- Environmental Science
- Equine Science
- Food Technology
- Mathematics
- Occupational Health and Safety Science
- Regional and Town Planning
- Science
- Sustainable Agriculture
- Veterinary Science
- Veterinary Technology
- Wildlife Science

**Disclaimer**

The inclusion in this publication of details of a program or a course creates no obligation on the part of the University to teach it as or when described. The University may discontinue or vary programs and courses at any time without notice. Information in this guide is accurate as at January 2017.

While care has been taken to provide accurate information in this prospectus, it is the responsibility of students to check and confirm the specific details of programs, courses and enrolment.

In the event of any conflict arising from information contained in this publication, the material approved by The University of Queensland Senate shall prevail.

Visit future-students.uq.edu.au for up-to-date program information.

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

Any agreement with this University does not remove the right to take action under Australia’s consumer protection laws.

Australian Consumer Protection
australia.gov.au

**Central guides**
- Australian Undergraduate (pictured left)
- International Undergraduate and Postgraduate
  (International students can visit future-students.uq.edu.au/publications-and-forms/international to access the latest international student guides)

**Copies of these publications are available through UQ Admissions.**

T: +61 7 3365 2203
E: admissions@uq.edu.au
W: future-students.uq.edu.au
KEY DATES

Tertiary Studies Expo (TSXPO)
RNA Showgrounds
Saturday and Sunday, 15-16 July 2017

UQ Open Day 2017
St Lucia campus Sunday, 6 August 2017
Gatton campus Sunday, 20 August 2017

QTAC closing date
For on-time applications
Thursday, 28 September 2017
(check qtac.edu.au for details)

Semester 1, 2018
Classes commence
Monday, 19 February 2018

CRICOS Provider Number 00025B

HAVE A QUESTION ABOUT PROGRAMS IN THIS GUIDE?
Faculty of Engineering, Architecture and Information Technology
T +61 7 3365 4777
E enquiries@eait.uq.edu.au
W www.eait.uq.edu.au

HAVE A QUESTION ABOUT LIVING AND STUDYING AT UQ?
Contact the Future Students
Contact Centre
T +61 7 3346 9872
E ask@uq.edu.au
W future-students.uq.edu.au

HAVE A QUESTION ABOUT ENTRY REQUIREMENTS AND ADMISSION TO UQ?
Contact UQ Admissions
T +61 7 3365 2203
E admissions@uq.edu.au
W asd.uq.edu.au/admissions

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA
Create change