CHOOSE UQ

While enjoying a campus life like no other, at a University consistently ranked well inside the world’s top 100 (of more than 10,000), you will learn from the best, with the best, to earn a highly valued qualification that will open doors around the world.

SUCCESSFUL GRADUATES
Full-time employment rates and salaries higher than national graduate average

GLOBAL CONNECTIONS
Extensive graduate network, strong industry partnerships and many notable alumni

VIBRANT CAMPUSES
Dynamic sports and cultural activities, 190+ clubs and societies

GREAT EXPERIENCES
Overseas study, field trips, practical experiences, vacation research programs and more

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 quality programs and courses in Queensland

* Surpassed 100 Office for Learning and Teaching (OLT) Citations for Outstanding Contributions to Student Learning, Awards for Teaching Excellence, and Awards for Programs that Enhance Learning in 2014
** 2012 Excellence in Research for Australia (ERA) assessment
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 groundbreaking opportunities for a new generation of engineers.

Excellence in teaching
Our teachers are award-winning lecturers who combine teaching with innovative research to create a high-quality learning environment for you. You will be taught by leaders in their field who have strong industry connections, ensuring your program remains relevant to industry changes. Many of our staff have been recognised for their teaching and innovation, winning Australian Government and UQ Teaching Excellence awards including a Prime Minister’s Australian Award for Individual University Teacher of the Year.

Practical industry experience
Industry placements not only provide an authentic experience of professional practice, but also provide valuable opportunities to develop relationships for future employment. UQ’s Bachelor of Engineering (Honours) provides you with hands-on experience through site visits, vacation work and industry placements, so you’ll be job ready upon graduation.

Widest range of specialisations
UQ’s Bachelor of Engineering (Honours) offers one of the largest range of engineering disciplines in Australia, some unique to Queensland such as Mining, and Chemical and Metallurgical Engineering.

Flexible first year
At UQ, the Engineering program is flexible. You can choose your specialisation in first year, or wait until second year. This allows you to keep your options open and gives you the opportunity to experience the many “flavours” of engineering before deciding on a specialisation.

Global leader
World University Rankings consistently rank UQ Engineering in the Top 100

RANKED #1
for student satisfaction
MyUniversity 2015

More study options
UQ offers one of the largest range of engineering disciplines in Australia
THE UQ ENGINEERING EXPERIENCE

UQ offers the largest choice of engineering specialisations, a wide range of quality resources, and access to award-winning teachers and leading researchers. Strong links with industry, research and government ensure our courses are industry-relevant, providing you with exceptional opportunities for employment and a university experience unlike any other.

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.

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 to new students from their 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.

Chance and Flexibility
UQ offers a variety of dual programs in which you can study a Bachelor of Engineering (Honours) with other disciplines including Biotechnology, Information Technology, Arts, Business Management, Commerce, Economics and Science. More details can be found on page 25.

Women in engineering
UQ Engineering is the leading choice for women pursuing engineering in Queensland and we have our sights set even higher. Collaborating with UQ staff and alumni, as well as industry organisations, the UQ Women in Engineering program aims to provide inspiration and support to both prospective and current female engineering students. The program offers female engineering students access to scholarships, guest lectures and leadership opportunities, as well as a number of social events throughout the year. Visit www.aat.uaq.edu.au/women-in-engineering for more information.

Professional accreditation
UQ’s Bachelor of Engineering (Honours) program is accredited by the leading professional association, Engineers Australia. You will be eligible for membership of Engineers Australia upon graduation. Other memberships apply to specific engineering majors.

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.

Learning labs
At UQ, we provide you with 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 and laboratories;
- more than 10 computing laboratories with 24-hour access to high-end workstations;
- specialist laboratories in biomedicine, robotics, electronics, computer systems, communications, power systems, optics, signal processing and microwave.

All of this means that you will enjoy the best learning experience possible.

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.

State-of-the-art equipment
Virtual Immersive Learning Facility
Powered by three high-powered digital projectors displaying onto an eight metre semi-circular wall, this simulation facility enables you to experience what it feels like to be on-site at a coal 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 up in space from right here on campus.
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.

An Engineering career

Engineers have been around since the very beginning of human civilisation, and have created the technology, products and infrastructure we take for granted. Today, engineering offers more career options than any other field. From the established civil and mechanical areas to the emerging environmental and biomedical fields, each discipline will lead to exciting careers solving both global and local challenges.

Some of the big issues confronting us are climate change, diminishing supplies of water and mineral resources, and the persistent problems of poverty and disease. As innovative problem-solvers and inventors, engineers will be called on to develop new sources of power to reduce our reliance on fossil fuels, design low-cost wastewater treatment and distribution systems for rapidly growing cities, and build “scaffolding” to enable human tissue growth at a cellular level.

As a UQ-qualified engineer you’ll will be at the forefront of the future’s exciting and innovative technology and will be equipped with the power to enrich the lives in our community.

Yassmin Abdel-Magied is an offshore drilling engineer for Shell, a writer and a social commentator. She advocates for the empowerment of youth, women and those from diverse backgrounds. Yassmin graduated in 2011 with a Bachelor of Mechanical Engineering (First Class Honours), and won a Dean’s Excellence Scholarship. At 16, Yassmin founded Youth Without Borders, an organisation enabling young people to work for positive change in their communities. In 2007, Yassmin was named Young Australian Muslim of the Year and in 2010 Young Queenslander of the Year. In 2012 she was named Young Leader in the Australian Financial Review and Westpac’s inaugural 100 Women of Influence Awards. She serves on various state and federal councils.

James’ passion for computers was sparked at age six when a teacher lent him a pile of books on how to program the school’s BBC microcomputers. Today, he’s an engineer at Google in Sydney. James works on the programming that allows Google Maps to be used in other websites and in apps like Runtastic, which map running, walking and cycling routes. But his proudest achievement is pioneering work on Google Crisis Maps. When devastating bushfires hit Victoria in February 2009, he and his colleagues noticed emergency service websites were overwhelmed by visitors trying to get information. The Crisis Maps have since evolved into a global project, bringing together multiple types of disaster-related information, from satellite imagery to evacuation routes, and covering a growing number of countries.

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CAREERS IN ENGINEERING

Engineers work in every industry in the Australian economy

Recognised as an outstanding contributor to the global mining industry, David Noon is a co-founder of GroundProbe and a co-inventor of the patented Slope Stability Radar technology. David has led the successful global commercialisation of this new technology, which is now considered world’s best practice in mining with more than 100 installations in 20 countries. Prior to forming GroundProbe, David was a Senior Research Fellow at UQ, working in a team to develop and commercialise radar technologies for the mining industry. David has a PhD in Electrical Engineering, and has completed executive management training at both Stanford and MIT.

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STUDY OVERSEAS

Through UQ’s student exchange program, UQ Abroad, you can study overseas for up to one year while gaining credit towards your UQ degree – and have the adventure of a lifetime!

www.uq.edu.au/uqabroad

EXPAND YOUR HORIZONS

“I recommend study abroad for anyone; it’s a great and rewarding experience that really does not have any downsides.”

“My overseas study experience was a definite highlight of my university studies. Much of the knowledge acquired through my exchange at the University of British Columbia, I can now apply every day in my studies back here at UQ. The friendships made during this time are ones that are going to stay and allow me to have connections all over the world.”

XENIA PLAKHOTNIK
Bachelor of Engineering
Student and Exchange participant at University of British Columbia, Canada

Study overseas through UQ Advantage Office

Through UQ’s student exchange program, UQ Abroad, you can study overseas for up to one year while gaining credit towards your UQ degree.

With almost 200 exchange partners in 40 countries, exchange is an ideal way to combine study and travel, and have the adventure of a lifetime. Improve your foreign language skills, broaden your professional and academic options, and establish a worldwide network of friends.

While on exchange, tuition fees at the host university are waived and you continue to be enrolled at and pay fees to UQ. You can even apply for student exchange scholarships or an OIE-HELP loan to assist with airfares, accommodation, health insurance and living costs.

UQ Abroad
www.uq.edu.au/uqabroad
www.uq.edu.au/uqabroad/contact-us
Phone +61 7 3365 9075 or +61 7 3365 8632

Learn a language

If your program does not allow you to enrol in languages as an elective, there are other options.

The Institute of Modern Languages (IML), located within the University, offers courses in more than 30 languages, from Arabic to Vietnamese, at beginner to advanced levels. IML language courses cover all four communication skill areas – listening, speaking, reading and writing – in small, friendly classes. You do not need any formal entry requirements for IML courses and they will not be counted towards your degree.

Or you can enrol in a concurrent Diploma in Languages through the Faculty of Humanities and Social Sciences.

The Brisbane Universities Language Alliance (BULA) is another avenue for studying languages not available at UQ, so that you can cross-enrol at Griffith University or Queensland University of Technology.

Institute of Modern Languages
www.iml.uq.edu.au
Email iml@uq.edu.au
Phone +61 7 3346 8200

Brisbane Universities Languages Alliance
www.bula.edu.au

Become a leader in your student community

If you have a passion for supporting other students and making a difference, why not become a student leader?

Being the “new kid on the block” can be a daunting experience, which is why UQ has designed a number of programs to create a vibrant campus atmosphere that reaches out to all new students. Whether it be conducting welcome sessions, peer editing, passing on “life skills”, or simply being sociable, student leaders – who come from a variety of backgrounds, study areas and levels of study – are key to making these programs successful.

Receive recognition for your work, enhance your CV and contribute to the UQ Advantage Award. Become the leader we know you can be!

Student leadership program
www.uq.edu.au/student-services/student-leaders
Email uqstudentleaders@uq.edu.au

UQ Advantage Award
www.uq.edu.au/advantage-award
Bachelor of 
ENGINEERING 
(HONOURS)

Engineering offers more career options than any other field. From the established civil and mechanical areas to the emerging environmental and biomedical fields, each discipline will lead to exciting careers solving both global and local challenges.

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 and wish to defer choice of an engineering specialisation 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.

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.

The Bachelor of Engineering (Honours) program requires you to complete 64 units of study including a major in one of the 18 engineering specialisations described on the following pages.

First Year Engineering

The flexible first year of UQ’s Bachelor of Engineering (Honours) offers you the opportunity to experience the many “flavours” of engineering before deciding on a specialisation. This enables you to make a more informed decision on an area of engineering that is right for you.

Your first year will provide you with a strong foundation in engineering courses that will introduce you to the way professional engineers think and work.

A significant learning component of first year engineering is built around two engineering practice courses involving engineering design, physical prototyping and modelling. You’ll work in teams on discipline-based projects that can be scaled up and applied to real-world situations, such as creating a water purification system to supply potable water in third world countries, or developing a deployable bridge to be used in a natural disaster.

Can I study more than one degree?
You can choose from a number of dual programs, where you can study two degrees at the same time.

Dual programs provide an opportunity to broaden your education and experience, and enhance the qualifications and skills you take into the employment market. For example, you can develop foreign language proficiency or expertise in computer science, mathematics or business.

For further information on UQ’s dual programs, please see page 25.

Can I transfer from another degree into engineering?
If you do not meet all the initial entry requirements, you may still be able to enter the Bachelor of Engineering (Honours) program at a later date. You can enrol in other UQ programs and undertake some courses that are also available in the Bachelor of Engineering (Honours) program while studying to meet the entry requirements or improve your entry score.

For example, by selecting certain first-year courses as electives in the Bachelor of Information Technology, you can satisfy the entry prerequisites for the Bachelor of Engineering (Honours) and, subject to satisfactory grades, proceed to the Bachelor of Engineering (Honours) in your second year.

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.

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

The Bachelor of Engineering (Honours) specialisations include:
- Chemical
- Chemical and Biological
- Chemical and Environmental
- Chemical and Materials
- Chemical and Metallurgical
- Civil
- Civil and Environmental
- Civil and Geotechnical

*Minors in Biological, Data Science, Environmental or Food Engineering are also available.
Bachelor of ENGINEERING (HONOURS) / Master of ENGINEERING

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 engineering degree to integrate a semester industry or research placement into a degree with Masters-level coursework.

You will gain a head-start in careers that require advanced knowledge and adaptability (e.g. in consulting, corporate government advising or industrial research) or when applying for research higher degrees at the world’s top institutions. The BE (Hons) / ME will prepare you:

- to secure globally competitive graduate positions and research higher degrees at the world’s top institutions.
- to have the depth to be a technical leader in your area of specialisation
- to 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 specialisation. 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 new 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 that does not exist for other postgraduate coursework degrees.

SPECIALISATIONS

The Bachelor of Engineering (Hons) / Master of Engineering specialisations include:

- Chemical
- Chemical and Biological
- Chemical and Environmental
- Chemical and Materials
- Chemical and Metallurgical
- Civil and Fire Safety*
- Electrical

*Subject to final approval

PROGRAM PATHWAYS

Entry via the Bachelor of Engineering (Honours)

- Engineering courses with elective streams
- BE (Hons)
- Apply for entry to BE (Hons) / ME at end of third year or continue with BE (Hons)

BE (HONS) YEAR 4

- Semester 2: Engineering courses, Design, Thesis and electives
- Semester 3: Engineering courses, Design, Thesis and electives

BE (HONS) / ME YEAR 4

- Semester 2: Industry / research placement or Engineering course elective

BE (HONS) / ME YEAR 5

- Semester 2: ME level courses and electives or Industry / Industry Research placement
- Semester 3: ME Design / Grand Challenges / Professional Practice and ME level courses and electives
CHEMICAL AND ENVIRONMENTAL ENGINEERING

What is Chemical and Environmental Engineering?
Chemical and Environmental engineers are accredited chemical engineers with additional technical skills in the areas of waste management and resource recovery, water treatment and sustainable energy systems. They have the skills and knowledge required to implement cleaner production, and to rigorously assess the long-term impacts of proposed products, processes, and technologies. As a Chemical and Environmental engineer, you will be able to apply, assess and communicate a wide range of approaches to developing sustainable systems, including indicators of sustainability and different methods of community consultation and engagement. You will have a solid grounding in modelling and in analytical measurement in laboratory and field/industrial applications, including basic sampling design and data analysis.

Careers
You will be equipped to work effectively across technical, research and strategic roles to respond to present and future challenges associated with sustainability. You may also work within government agencies, industry and consulting firms in strategic roles such as sustainability implementation. For example, Chemical and Environmental engineers will help companies implement cleaner production practices, and will be involved in adaption and planning for future environmental challenges in both the public and private sectors.

CHEMICAL AND MATERIALS ENGINEERING

What is Chemical and Materials Engineering?
The program combines studies in chemical engineering with additional specialist study in materials engineering. Materials engineers are employed in the materials processing and manufacturing industries, including the automobile, whitegoods, steel, aluminium and polymer industries that create wealth and add value to Australia’s mineral and other resources. Materials engineers are responsible for contributing to advances such as the space shuttle and the jet aircraft; the laptop computer and the iPod; artificial hips; contact lenses and the bionic ear; improved golf clubs and tennis rackets; and levitating trains. Employment can be found in biomedical, electronics, energy and heavy industries.

Careers
You will have the employment opportunities of a Chemical Engineer, as well as further possibilities as a Materials Engineer.

CHEMICAL AND BIOLOGICAL ENGINEERING

What is Chemical and Biological Engineering?
Chemical and Biological Engineering combines chemical engineering and knowledge of how to engineer biological systems at a molecular, cellular and tissue level, resulting in the design and production of biomolecules, cell-based products and tissues – otherwise known as bioengineering. Bioengineering covers a broad range of applications from renewable fuels and plastic to biopharmaceuticals and medical devices. At UQ, bioengineering is offered in conjunction with chemical engineering and graduates will be fully accredited as chemical engineers. This combination recognises that many bioengineers will step into traditional chemical engineering roles and help the industry make the transition from chemical to biological routes.

Careers
Employment prospects are excellent, especially in environmental protection, management and safety; biomedical, biotechnical and pharmaceuticals industries; advanced materials design and manufacture; minerals processing and related industries; food processing; and product design and development.

Graduates are actively sought by employers for design, operations and management positions. With a shift from chemical to biological processes, there are many industrial research and development as well as academic positions in biological engineering.

CHEMICAL ENGINEERING

What is Chemical Engineering?
Chemical engineering is one of the most mobile and diverse careers you can choose. Your skills will allow you to work in a wide range of industries, government departments and private consultancies. You can work in environmental protection, risk management and safety; national resource utilisation and the energy sector; chemical, petroleum and petrochemical industries; biochemical, biomedical and pharmaceuticals industries; computer-aided process and control engineering; advanced materials design and manufacture; minerals processing and related industries; and food processing and biotechnology.

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Chemical engineering is one of the most mobile and diverse careers you can choose. Your skills will allow you to work in a wide range of industries, government departments and private consultancies. You can work in environmental protection, risk management and safety; national resource utilisation and the energy sector; chemical, petroleum and petrochemical industries; biochemical, biomedical and pharmaceuticals industries; computer-aided process and control engineering; advanced materials design and manufacture; minerals processing and related industries; and food processing and biotechnology.

Careers
Chemical engineering is one of the most mobile and diverse careers you can choose. Your skills will allow you to work in a wide range of industries, government departments and private consultancies. You can work in environmental protection, risk management and safety; national resource utilisation and the energy sector; chemical, petroleum and petrochemical industries; biochemical, biomedical and pharmaceuticals industries; computer-aided process and control engineering; advanced materials design and manufacture; minerals processing and related industries; and food processing and biotechnology.
CHEMICAL AND METALLURGICAL

career that offers variety, hands-on problem solving, major high-tech projects and high salaries with prospects for international travel, you should find out more about this option.

The dual major in Chemical and Metallurgical Engineering will provide you with a broad education in chemical engineering combined with more specialist metallurgy courses.

Careers
You will find employment in a wide range of companies, and employment prospects are excellent. Positions for metallurgical engineers are available in production operations, engineering design, consultancies, laboratories, marketing, finance and commerce, and in research and development. The industry provides generous, well-paid vacation work to enable you to obtain practical experience in the sector before you graduate, and scholarships to help pay tuition fees.

This is a truly international profession with a choice of employment and lifestyle opportunities throughout Australia and overseas.

What is Chemical and Metallurgical Engineering?
Metallurgical engineers play a key role in ensuring the sustainability of our modern society. Almost everything in our material world, even our major energy sources, is derived from minerals or from recycled materials. It is the role of the metallurgical engineer to develop, design and operate processes that transform these low-value raw materials into useful, high-value mineral and metal products.

If you are looking for an interesting

CIVIL

Civil engineers understand the way in which natural phenomena behave, meeting both environmental and technical challenges relating to areas such as how water flows, how waves break, how rivers can be controlled, how rainfall and wind effects can be measured and how buildings of all kinds can resist loads. You can study in the areas of structural engineering, hydraulic engineering, transportation engineering, geomechanics, hydrology, construction, coastal engineering and economics.

Careers
Civil engineers mostly work in private industry; federal, state and local government; consulting engineering companies; mining companies and research establishments in Australia and overseas. They provide expert services to clients, advising financially and technically, and undertaking the planning, coordination and technology of projects, often from first concepts through to completion.

What is Civil Engineering?
Civil engineering is for people – providing for their needs by planning and constructing the environments in which they live. Civil engineers are experts in planning, design, construction and maintenance of the facilities that contribute to our modern way of life. Civil engineers design buildings, bridges, roads, harbours, dams, airports, coastal protection, water supply and public health, producing efficient facilities that are aesthetically pleasing and meet the needs of society.

CIVIL AND ENVIRONMENTAL

"sustainable infrastructure" research initiatives.

The Civil and Environmental specialisation consists of core courses from the Civil Engineering major, supplemented with a "spine" of environmental systems engineering courses equipping you with the systems skills to approach complex, multidisciplinary problems.

Careers
Nations like Australia will have to re-engineer ageing and inappropriate infrastructure, industries and patterns of urbanisation. Civil and Environmental Engineers will lead the designing and building of future sustainable cities and regions – this includes developing sustainable buildings and precincts, creating energy-efficient rapid transit systems and providing populations with water and energy security as well as solid waste solutions. Future cities and their supporting regions will require a systems approach to design, build and manage complex, integrated forms.

What is Civil and Environmental Engineering?
The Civil and Environmental Engineering specialisation is designed to equip you with the environmental systems engineering skills necessary to design and build tomorrow’s integrated, multi-centred sustainable cities. New technologies and engineering solutions are required in both the developed and developing world for global sustainable development. Decision-makers have begun to recognise the urgency of the problems and are developing new

CIVIL AND FIRE SAFETY**

What is Civil and Fire Safety Engineering?
Fire Safety influences every aspect of the built environment – from the design of industrial facilities and skyscrapers to the materials chosen to create cars and aeroplanes. This program combines Civil Engineering with additional study in the specialist field of Fire Safety Engineering and will equip Civil Engineering students with the necessary fundamental skills and knowledge to develop a comprehensive Fire Safety Strategy for a broad range of projects. Areas of study will include the fundamental processes governing ignition, fire growth, and the response of structures to fire. The course program will also develop the design principles required for applying fire safety engineering in the built environment.

Careers
Engineers with specialist knowledge in this area are highly sought after by leading consultancies around the world to develop design and construction complex infrastructures using demonstrated specialised knowledge in fire safety across a broad range of areas including fire dynamics, fire protection systems, fire regulation and fire safety legislation.

The UIE (Hons) BEng in Civil and Fire Safety Engineering will provide a pathway to accreditation as a Chartered Engineer in Civil and/or Fire Safety Engineering.
ELECTRICAL AND BIOMEDICAL

What is Electrical and Biomedical Engineering?

This program combines studies in electrical engineering with additional specialist study and project work in bioengineering. New discoveries and developments in biology and medicine are occurring with greater frequency now than ever before. This has led to the rapid change and growth of biotechnology research and industry. Biomedical engineering bridges the gap between technology, medicine and biology. It integrates physical, chemical, mathematical, and computational sciences and engineering principles with the ultimate aim of improving healthcare through advances in technology.

The dual major in Electrical and Biomedical Engineering commences with a broad foundation of preparatory courses in engineering, mathematics, biology and physics. This is followed by the more advanced coursework and laboratory training, combining engineering analysis and design techniques with biology and physiology of cells and organisms.

Careers

As a biomedical engineer, you may be involved in the design, construction and development of health and monitoring devices or diagnostic systems (such as CT and MRI scan), and therapeutic systems (such as tissue engineering). You could also work with models of physiological function (such as a virtual heart), and with prosthetics and implants. Employment opportunities include hospitals, biotechnology companies, medical equipment manufacturers, research institutes, and government health departments.

Year 1

Electrical and Biomedical Engineering Design
Introduction to Electrical Systems Calculus and Linear Algebra I
Electrical Energy, Energy Conversion and Utilization
Electrical and Electronic Circuits

Year 2

Electronics and Control Systems
Control Systems Principles and Programming
Introduction to Software Engineering

Year 3

Computer-aided Design and Manufacturing
Medical Imaging
Medical and Industrial Instrumentation

Year 4

Introduction to Technical Project Management
Elective

Electronics and Biomedical Engineering

Introduction to Electrical Systems Calculus and Linear Algebra I

Year 2

Electrical Energy, Energy Conversion and Utilization

Year 3

Control Systems Principles and Programming
Introduction to Software Engineering

Year 4

Computer-aided Design and Manufacturing
Medical Imaging
Medical and Industrial Instrumentation

Electives

ELECTRICAL

What is Electrical Engineering?

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 buildings and mining projects, telecommunications infrastructure, aerospace and defence systems, medical imaging systems and industrial and scientific instrumentation and control.

This major prepares you to work in innovative environments, designing cutting-edge products and solutions for the power, information and communication industries. Strong emphasis is given to practical, hands-on experience.

You will complete three projects in the second and fourth year and an individual project in fourth year.

Careers

Electrical engineers typically work in one of the following fields:

- telecommunications
- robotics and intelligent systems
- computer systems engineering
- electric power generation transmission and distribution
- biomedical engineering including biomedical imaging and signal processing for biomedical applications.

Career opportunities are found in the telecommunications and microwave industry, 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.

Year 1

Electrical Engineering Design
Introduction to Electrical Systems
Calculus and Linear Algebra I

Year 2

Electrical Energy, Energy Conversion and Utilization

Year 3

Control Systems Principles and Programming

Year 4

Computer-aided Design and Manufacturing

Electives

ELECTRICAL AND COMPUTER

What is Electrical and Computer Engineering?

Computer engineering spans hardware, software and systems – how to build a computer-based device, how to program that for advanced operations and how to connect to other devices to work together.

Computer engineers build devices which everybody can recognise as a computer e.g. iPad or PC, but electrical and computer engineers can also build “hidden” or embedded computers which control complicated machinery, medical instruments, cars, white goods, robots, communication equipment and satellites.

You will graduate with knowledge in electrical engineering, computer engineering and information technology, in conjunction with skills of a professional engineer.

Careers

Electrical engineers with in-depth knowledge of computer systems are needed in virtually any industry where advanced electrical and electronic equipment is designed, upgraded or even maintained. Electrical and Computer Engineers are qualified to work within the mainstream computer industry but also in most other areas of electrical engineering. You may be employed as a designer of electronic and computer hardware, or as a system integrator building equipment requiring computer control. You can also work as a programmer, designing and implementing applications, ranging from software for embedded microcontrollers to the software used in information terminals.

Year 1

Electrical and Computer Engineering Design

Year 2

Electronics and Control Systems

Year 3

Medical Imaging

Year 4

Technical Project Management

Electives

CIVIL AND GEOTECHNICAL

What is Civil and Geotechnical Engineering?

The infrastructure development in Queensland, and Australia as a whole, is generating demand for Civil Engineering graduates. This includes specialisation associated with civil engineering in Geomechanics, incorporating soil mechanics, rock mechanics and engineering geology.

The Civil and Geotechnical specialisation combines studies in Civil Engineering with additional specialist study and project work in Geotechnical Engineering. This specialisation is designed to equip you with the skills to approach complex, multidisciplinary problems concerning earth materials including roads, landfills, piled building foundations, excavations, spillways, tunnelling and mining.

The Civil and Geotechnical Engineering dual major is supported by a consortium of global companies. You will be taught by experts working in civil and geotechnical engineering and will benefit from UQ’s close links with these companies.

Careers

There is a demand from Civil and Geotechnical Engineering Consultants, Mining Companies, and Civil and Mining Contractors, and you can work in design, operation, management, research and consulting in Australia and overseas.

Year 1

Civil and Geotechnical Engineering Design

Year 2

Environmental Issues, Monitoring and Assessment

Year 3

Catchment Hydraulics: Open Channel Flow and Riverine Geotechnical Engineering

Year 4

Mine Geotechnical Engineering

Electives

COURSES*

*Indicative course list only

Year 1

Electrical Energy Conversion and Utilisation

Year 2

Probability Models for Engineering and Science

Year 3

Analysis of Ordinary Differential Equations

Year 4

Technical Project I

Electives
MECHANICAL

What is Mechanical Engineering?
As one of the broadest areas of engineering activity, mechanical engineering is concerned with machinery, power and manufacturing methods. Mechanical engineers design and manufacture machinery and equipment for all branches of industry; design and operate power plants; and concern themselves with the economical combustion of fuels, the conversion of heat energy into mechanical power and the use of that power to perform useful work.

You will study core courses in design, mathematics, modelling, computing, management and engineering science. Electives in later years will give you an opportunity to study in greater depth the fields of interest for individual career options. The principal topics in mechanical engineering are fluid mechanics, thermodynamics and heat transfer, solid mechanics, manufacturing, energy systems, dynamics and control.

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 is Mechanical and Aerospace Engineering?
This program combines studies in mechanical engineering with additional specialisation study and project work related to 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 challenging discipline because of the need for light-weight but highly reliable aircraft and spacecraft.

Cutting-edge technology and design are key in this field.
All students study aerospace propulsion, design and manufacturing and then specialise in either the aeronautical or space engineering streams to obtain the dual major. You can study topics such as flight mechanics, aerospace composites, space engineering, hypersonic aerodynamics and computational fluid dynamics.

Careers
Because the degree is based on the Mechanical Engineering program you will be fully qualified as a mechanical engineer and will have the same employment opportunities as mechanical engineers.
As a UQ Mechanical and Aerospace Engineering graduate you will not only have generic skills that give you an advantage in traditional mechanical engineering roles, as the discipline increasingly relies on high-technology, but will also have the specialised training to apply engineering and scientific techniques to aerospace-based situations.

MECHANICAL AND MATERIALS

What is Mechanical and Materials Engineering?
The program combines studies in mechanical engineering with additional specialisation 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 materials behaviour to optimise processing and improve the properties of products. They are also involved in controlling the service behaviour of materials, improving the performance of machines and structures.

Careers
As a fully-qualified Mechanical Engineer, you will have the same employment opportunities as any mechanical engineer with further possibilities as a materials engineer.
Materials engineers are employed in the materials processing and manufacturing industries, including the automobiles, whitegoods, steel, aluminium and polymer industries that create wealth and add value to Australia’s mineral and other resources. Materials engineers are employed in large multinational companies and small to medium enterprise, research establishments, public utilities and consulting engineering firms.
Employment can be found in biomedical, electronics, energy and heavy industries.

RACHEL PURDIE
Bachelor of Engineering (Mechanical) and Bachelor of Women in Engineering Student Leader

“One of the biggest highlights from my time at UQ would be becoming a member of the UQ Racing team, an extra-curricular activity where a group of students completely design, fabricate and test a formula style vehicle. We then compete in an international competition organised by the Society of Automotive Engineers against more than 500 other university teams. I have learnt so much while on the team, such as project management, system integration, mechanical design, practical manufacturing and even fabrication. Using the skills that I have developed by participating in the team I managed to win the AR Murom Prize for Mechanical Design, so it is already paying off!”

*Indicative course list only
What is Mining Engineering?

Mining engineering is concerned with the extraction of valuable minerals from the ground, and includes exploration, blasting, tunnels, tailings, and other earthmoving activities. Mining engineers work in multidisciplinary teams to design and manage the processes of mining. They use sophisticated computer techniques to identify and extract valuable minerals from the earth. The mining industry is one of the few that grows during a recession, and it is a major employer of engineers.

Careers

Graduates are highly employed. They choose to work for large multinational companies, such as BHP Billiton or Rio Tinto, or with smaller mining companies, such as Goldfields or Independence. Graduates work in Australia and overseas. The mining industry is one of the few that actually employs graduates within a month of graduation. There are good job opportunities for mining engineers in many parts of the world, and some mining engineers choose to work in remote locations like the Pilbara. Graduates also work with civil engineers, and can work in areas like road construction, water supply, and geographical information technology.

What is Mechatronic Engineering?

Mechatronic engineering is one of the newer branches of engineering, and has far-reaching applications to every sector of society. Mechatronic engineering is the integration of precision mechanical engineering with electronics, computer systems, and advanced controls to design and construct products and processes. The Mechatronic Engineering program provides a broad-based education in the basic principles of electrical, mechanical and computer engineering.

Careers

Mechatronic engineers are needed wherever there is a potential for improvement through the integration of computer and electrical hardware with mechanical systems. Mechatronic engineers design and develop mechatronic systems for applications such as robotics, automation, and medical equipment. They are needed in the manufacturing, transportation, and aerospace industries. Graduates are in high demand and are very highly paid.

What is Software Engineering?

Software engineering is the systematic application of engineering principles to the development of software systems. It involves planning, designing, implementing, and maintaining software systems. Software engineers use principles of computer science, engineering, design, management, psychology, sociology, and other disciplines to design and manage large software systems. Graduates of software engineering programs can work in a variety of fields, including computer science, software development, software management, and software testing.

Careers

Software engineers are in high demand, and there are many career opportunities in software engineering. Graduates can work in a variety of fields, including computer science, software development, software management, and software testing. Some software engineers choose to work in software development, while others focus on software testing, software management, or software engineering.

MINING AND GEOTECHNICAL

Year 1

COURSES

Year 2

COURSES

Year 3

COURSES

Year 4

COURSES

MINING

Year 1

COURSES

Year 2

COURSES

Year 3

COURSES

Year 4

COURSES

SOFTWARE

Year 1

COURSES

Year 2

COURSES

Year 3

COURSES

Year 4

COURSES

ENGINEERING 2016
STARTING UNIVERSITY

WHAT TO KNOW WHEN STARTING UNIVERSITY

High school prepares you for the next step towards your career, in whatever area or path that may be. To help make your transition from high school to a UQ engineering degree easier, we’ve asked some of our current students to share what they wished they knew in high school.

Aaron Low
Bachelor of Engineering (Civil and Geotechnical)
Second Year student

Things I wished I knew in high school...

Hold on to your notes! In Semester 1 of first year I had to revise my Integration and derivation rules as university notes just looked too complicated. My old notebook from back in high school was the best resource available to me at that time.

There are many scholarships available for all types of students. Sites like UQ’s scholarship page for future students are very well structured; however, you need to actively apply for university scholarship before the start of first semester.

Explore your options. I was a part of the Students for the Future program which gave me a head start in making a decision to study engineering. Many events and opportunities like this are available during high school if you’re interested.

Elishaba Radke
Bachelor of Engineering (Chemical and Metallurgical)
Third Year student

Things I wished I knew in high school...

Every student has different strengths and learning paces. I’ve found there really isn’t only one way to do an engineering degree. Sometimes it just takes a few years after graduation before you know what you want to do, or are in the headspace for intense study. Consider bridging courses, night classes or other degrees as a pathway to engineering.

Science and engineering are different. In high school I loved applications of chemistry, but I had no idea until I was well into my first year that this actually existed as a specialisation in Metallurgical Engineering. You will be exposed to many different areas of engineering in first year before deciding on an area to specialise in.

Julian Tonino
Bachelor of Engineering (Civil)
Third Year student

Things I wished I knew in high school...

Learn your fundamentals. The fundamentals I learnt in Chemistry, Physics and Maths B and C like algebra, calculus and Trigonometry, I have never lost and will use every day for the rest of my life.

Develop an understanding of university life and what you think you might want to do. I didn’t really understand circuits, but that’s okay as I’ve pursued Civil Engineering, not Electrical Engineering where this has more relevance and I’d have to fully understand and enjoy this subject.

DUAL DEGREE 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.

Applicants for UQ dual programs must satisfy prerequisites and entry score requirements for both programs. You apply through normal QTAC application procedures.

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

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

Engineering (Honours) / Biotechnology
(BE (Hons) / BBioTech)
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 (Chemical Engineering) and BBioTech (Process Technology) only.

Engineering (Honours) / Business Management
(BE (Hons) / BBusMan)
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
(BE(Hons) / BCom)
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
(BE(Hons) / BEcon)
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
(BE(Hons) / BInfTech)
Program duration: 5.5 years
An excellent combination 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) / Science
(BE(Hons) / BSc)
Program duration: 5 years
Engineering and science are complimentary 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. This program is available with all engineering majors. Popular fields of study in the BSc for dual degree students include mathematics, physics and chemistry.

* 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) or Bachelor of Engineering (Honours) / Bachelor of Science or (for some majors) with the Bachelor of Engineering (Honours) / Bachelor of Information Technology.
A concurrent diploma could be the perfect balance between a single degree or dual degree program.

CONCURRENT DIPLOMAS

These diplomas are taken alongside your undergraduate program. They enable you to enhance your undergraduate experience with personal or career interest areas, while maintaining your core studies.

Diploma in Languages (Diplang)

Languages are a passion for many UQ students. All languages are offered with beginners’ and more advanced streams. As such, the concurrent diploma will suit you if you’ve studied a language at high school and want to increase your proficiency; or if it’s your first time learning a second language. Proficiency in a second language will open up both professional and personal opportunities for you. Whether you are studying architecture, speech pathology, pharmacy, or engineering, you can also study any of the languages offered at UQ to enhance your international employability. If you are studying ancient history or archaeology, you may find the classical languages, Latin and Greek, to be beneficial to your program.

Languages available

• Chinese
• French
• German
• Indonesian
• Japanese
• Korean
• Russian
• Spanish
• Classical languages.

Language Advantage

The School of Languages and Cultures at UQ is recognised as one of Australia’s leading language institutions. Promoting intercultural communication and understanding, the School provides outstanding teaching and research of major world languages and cultures. UQ is also home to a number of language clubs and events, including film festivals, which encourage you to meet and practise your language skills with native speakers.

What does this mean?

This diploma is taught by The University of Queensland in conjunction with the Universities of Melbourne, British Columbia (Canada), Nottingham (United Kingdom), Lund (Sweden), and Tecnologico de Monterrey (Mexico).

Diploma in Global Issues (DipGI)

This diploma adds an international perspective to your undergraduate studies, which will help strengthen your CV and chances of employment. You’ll gain a solid comprehension of the relationships between individuals, societies and countries.

Global Advantage

You can take advantage of UQ’s extensive international connections and to bolster your learning by undertaking overseas study.

Music Advantage

The School of Music at UQ is one of Australia’s leading music institutions. Over the last decade it has played an increasingly important role within the music discipline nationally and now holds a leading position in graduate studies in composition, music education and twentieth century music. Other areas of specialisation include musicology and practical studies. Staff members and alumni of the School are acclaimed nationally and internationally as performers, teachers, composers and researchers – including a two-time GRAMMY®-award winning musician.

Diploma in Languages (Diplang) 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

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

www.uq.edu.au/study

Diploma in Global Issues (DipGI)

www.uq.edu.au/study

Music Advantage

www.icte.uq.edu.au/courses-and-programs

Once you complete your undergraduate degree, you may decide to keep going: UQ has many postgraduate study options to choose from.

Undergraduate diploma

Explore a particular area of interest, fulfil pre-requisites for other programs, or upgrade your qualifications with a Diploma in Arts or Science.

Study at your own pace and choose undergraduate courses to suit your personal career goals.

Courses and Programs

www.uq.edu.au/study

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

www.uq.edu.au/study

Undergraduate diploma

www.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, progress to a graduate diploma, and then to a coursework masters.

Research higher degrees (RHDs)

RHDs require that at least two-thirds of the program is supervised independent research (thesis). You may also have to undertake some coursework.

RHDs include the Master of Philosophy (MPhil), which takes one-and-a-half years to complete, and the Doctor of Philosophy (PhD) which takes three-and-a-half years. To be awarded these degrees you must produce either a 40,000- or 80,000-word thesis of original research.

Graduate School

www.uq.edu.au/pgadmissions

Continuing professional development

Once you begin your career, you may be interested in ongoing tuition to keep up-to-date in your industry.

Some faculties offer work-related courses run intensively over several days or hours, while others are offered on a semester-long basis. Still others are offered online. Check your faculty website for details.

The Institute of Continuing and TESOL Education (ICTE-UQ) also offers professional year programs throughout the year as well as a certificate in English language teaching.

ICTE-UQ

www.icte.uq.edu.au/courses-and-programs

STANDARD PATHWAYS TO AND THROUGH UQ

PRE-TERTIARY PATHWAYS TO AND THROUGH UQ

UNDERGRADUATE LEVEL

CONCURRENT DIPLOMA

UNDERGRADUATE PROGRAMS

Bachelor degree

Coursework

Graduate Diploma

Foundation Year (Bridge Program)

HONOURS (Coursework and/or Research)

POSTGRADUATE LEVEL

RESEARCH PROGRAMS

Master of Philosophy (MPhil)

Doctor of Philosophy (PhD)
MONEY MATTERS

Being aware of the financial aspects of university will help you be better prepared for your new life.

Fees and costs
Course fees and student contributions
When you study at university, at the start of each semester or teaching period (study period) you are charged a fee for each course in which you enrol.

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.

As fees are charged according to the courses you undertake, not the program in which you are enrolled, it is not possible to publish a fixed fee for a program. “Indicative” annual fees (based on average first-year enrolment patterns) are listed on our Courses and Programs website to help you plan your budget.

Fees calculator
To help you estimate your course fees for a study period, UQ has an online Fees Calculator. If you add the study period totals together you can then estimate your total enrolment costs.

Before you enrol, faculty Academic Advisors can help you develop a study plan.

Fees calculator
www.uq.edu.au/study (under What It Costs/ UQ Toolkit)

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 SAF – which is capped at a maximum of $286 for 2015 – according to whether you are an internal or external student, full-time or part-time. The fee is indexed annually.


Proposed higher education reforms
In the May 2014 Budget, the Australian Government proposed changes to funding for higher education. At the time of printing, the proposals have not been passed by the Senate, and UQ – like all Australian universities – does not know the impact of the proposed reforms. Further information, including a number of “frequently asked questions” about student enrolment scenarios, is available on the Department of Education website.

Department of Education https://education.gov.au/students-fees
StudyAssist www.studyassist.gov.au

Living costs
Going to university can mean more costs, like accommodation, books and study materials, transport and parking; however:

• Australian Government provides financial support and fee repayment options.
• UQ runs a secondhand bookshop and low-cost entertainment activities.
• UQ’s Student Services can help with finding accommodation.

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 loan
• Relocation scholarship
• Interest-free advance loan where part of allowance is paid as lump-sum advance
• Parent Education Supplement (PES)
• Low Income Health Care Card
• Fines Allowance
• Child Care Benefit (CCB) or Rebates, or JET Child Care Fee Assistance (if you have children in your care).

Centrelink www.humanservices.gov.au
Phone 132 490
(1800 132 317 for ABSTUDY only)

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 that allows you to defer repayment of all or part of the student contribution amount until your income meets a specific threshold. This means you do not have to start repaying your HECS-HELP debt until you earn above a certain income level ($53,345 for the 2014-15 income year). Loan repayments are then taken out of your pay as additional tax. You need to supply your tax file number to apply.

HECS-HELP www.studentaid.gov.au

SA-HELP
SA-HELP is a loan scheme that helps you pay for all or part of 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.

SA-HELP and SA-HELP information www.studentaid.gov.au

2015* STUDENT CONTRIBUTION BANDS AND AMOUNTS

<table>
<thead>
<tr>
<th>BAND</th>
<th>AREA OF STUDY</th>
<th>STUDENT CONTRIBUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Humanities, behavioural science, social studies, education, clinical psychology, foreign languages, visual and performing arts, nursing</td>
<td>$6152</td>
</tr>
<tr>
<td>2</td>
<td>Mathematics, statistics, computing, built environment, other health, allied health, science, engineering, surveying, agriculture</td>
<td>$8788</td>
</tr>
<tr>
<td>3</td>
<td>Law, accounting, administration, economics, commerce, dentistry, medicine, veterinary science</td>
<td>$10,266</td>
</tr>
</tbody>
</table>

* 2015 figures only, based on full-time (16-unit) workload; figures indexed annually.
Scholarships

UQ offers a range of scholarship options to make university study more affordable. Check out what you may be eligible for before you start.

Scholarships

UQ scholarships are awarded to recognise academic excellence combined with outstanding leadership, to assist students from families experiencing significant financial hardship, to support elite athletes, to help offset the costs of overseas study, and to aid students wishing to gain valuable research experience.

Scholarships are not only funded by the University, but are also generously supported by Industry partners, private donors and the government.

Academic scholarships

Academic scholarships aim to reward very high achieving school leavers who, in their senior years of high school, have also demonstrated outstanding community service and/or significant leadership potential. Three categories are offered: UQ Vice-Chancellor’s, UQ Excellence and UQ Merit. Applications open in August and close on 31 October each year.

Equity scholarships

UQ is keen to support students from financially disadvantaged backgrounds to realise their tertiary study aspirations. More than 100 UQ Links Access Scholarships, valued at $9,000 over three years, are awarded each year to commencing students who demonstrate significant financial hardship. If you wish to be considered for one of these scholarships, you should complete the Financial Hardship section of QTAC’s Educational Access Scheme when submitting your QTAC application.

Centreflirk scholarships

If you receive a youth support payment such as Youth Allowance or ABSTUDY, you may be able to access the Student Start-Up Scholarship through Centreflirk.

Relocation Scholarships are also available to regional/remote students needing to relocate from home to attend university. Contact Centreflirk at www.humanresources.gov.au for more information.

Field of study scholarships

Thanks to generous financial support from industry partners and University donors, UQ is able to offer a wide range of scholarships across most study areas. In general, you must complete at least one year of study before you can apply, although some faculties do offer entry scholarships for commencing students.

Scholarships for Women in Engineering

If you are a prospective female student applying to study Engineering at UQ, you may be eligible for a specific first year scholarship. The Parsons Brinckerhoff Scholarship, valued at $5000 for one year, is offered to encourage and support female students who have been educationally disadvantaged as a result of their financial circumstances and/or geographic isolation. Also on offer is the Leanne Bond Scholarship, valued at $5000 for one year, which is offered to encourage and support a female student undertaking the first year of an engineering dual program with business management or economics.

Scholarships for Indigenous students

There are many scholarships for Aboriginal and Torres Strait Islander students. Indigenous Access Scholarships (IAS) provide a one-off payment of more than $4800 to assist with the costs of starting university (inclusive rate that preference is given to commencing students who have to relocate). IAS recipients may also be eligible for other Commonwealth-funded Indigenous Scholarships.

Undergraduate research scholarships

UQ’s Summer and Winter Research Programs provide an opportunity to gain research experience working alongside some of UQ’s most talented researchers. Projects are available in most disciplines for six to ten weeks over the summer break and four-six weeks over the winter break. You can apply for scholarships valued at up to $3000 for the UQ Summer Research program and up to $1000 for the UQ Winter Research Program.

Scholarships for overseas study

An overseas study experience is a great way to build global networks, increase employability, learn a new language, and experience a new culture. Through UQ Abroad, UQ’s student exchange program, you can study overseas for a semester or a year on exchange while gaining credit towards your UQ degree. Scholarships, valued at up to $3000, are available to help with travel and other costs.

Global experiences and professional development

UQ is committed to providing opportunities for you to realise your aspirations, become a leader in your chosen field, and make a positive impact on society. UQ Advantage Grants of up to $1000 can provide financial assistance to support your participation in professional development and co-curricular activities such as internships, volunteering, short-term study programs, conference presentations and more.

Sporting scholarships

If you play sport at an elite level, the following scholarships are available: UQ Sports Achievement Scholarship, valued at $6000 for one year; Clem Jones Sporting Scholarship, valued at $6000 a year for up to three years. Sporting scholarship recipients also receive free access to the University’s sporting facilities and services. Apply online by 31 October each year via the UQ Sport website.

If you have represented at open, national or international level in your chosen sport, you can apply for the UQ (Sports Scholarship) Ambassador Program, worth $1500 per year. Please visit www.uq.edu.au/scholarships for more detailed information on any of the above as well as other scholarship opportunities available at UQ.

Undergraduate Scholarships and Prizes Office

www.uq.edu.au/scholarships
Email uhscholarships@uq.edu.au
Phone +61 7 3365 7113
UQ Abroad
www.uq.edu.au/abroad
UQ Sport
www.uqsport.com.au
Phone +61 7 3365 6143

RWH Hawken Scholars

The RWH Hawken Scholars program provides the Faculty’s top engineering students with enhanced academic, industry and cultural experiences, as the University aims to further develop your skills, knowledge and experiences, in preparation for long-term leadership positions.

RWH Hawken Scholars are academically gifted students with a passion for engineering who have displayed leadership qualities within school and the community, and aspire to take their degree to the highest possible level.

All high-achieving students are invited to apply for a UQ Vice Chancellor’s, UQ Excellence or an EAIT International Scholarship, when enrolling in the Bachelor of Engineering (Honours).

Those who are successful in their application for these scholarships will become a RWH-Hawken Scholar for their first year of study at UQ.

They 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 opportunities
• exclusive Boardroom Lunches with senior members of industry
• student mentoring opportunities.

Membership

The RWH Hawken Scholars program is only available to an eligible student while they are enrolled full-time in the Bachelor of Engineering (Honours) or Bachelor of Engineering (Honours) / Master of Engineering.

For students who are in their second year of study onwards, the top five per cent of the cohort (measured by grade point average) will be selected and invited to participate in the program each year.

Applications may be made at the discretion of the Associate Dean (Academic) to ensure representation in the EAIT Scholars Program (which the RWH Hawken Scholars Program is part of) across nominated degree programs.

More information:
www.eait.uq.edu.au/hawken-scholars

Roger William Hercules Hawken (1878-1947) was the first professor and lecturer in Civil Engineering at The University of Queensland. Professor Hawken played a leading role in the formation of Engineers Australia in 1913 and worked on many major projects including Brisbane’s Story Bridge. He was an inspiring member of The University of Queensland academic staff for more than 35 years.

For more information, please visit www.uqabroad.com.

For more information, please visit www.uq.edu.au/study/scholarships.
Admission requirements

To gain admission to undergraduate programs, you must satisfy prerequisites and have a sufficient entry score (OP/Rank).

But there are alternative pathways for entry if you do not meet the requirements, and you can upgrade your score.

Prerequisites

Subject prerequisites are the Queensland Year 12 subjects required for individual programs. You may also gain admission to programs with subject equivalents from interstate or overseas schooling, selected bridging programs, or tertiary studies. Some programs have additional prerequisites, e.g., 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 published program cut-offs.

UQ OP Guarantee

If you achieve an OP score in the range of 1-99, with 99 being the highest, you are guaranteed a place in the majority of UQ’s undergraduate programs, regardless of the published program cut-offs.

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 equivalent), and/or by other means detailed in the Entry Options booklet available at: www.uq.edu.au/study/docs/domestic/entry-options.pdf.

Special entry programs

If you are of Australian Aboriginal and/or Torres Strait Islander descent, or 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.

Programs for high-school students

UQ’s Enhanced Studies Program (ESP) lets you complete a university course at one of three UQ campuses 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 www.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 www.uq.edu.au/youngscholars.

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.

Advisory: if you subsequently go on to study at UQ, you will give credit.

Entry pathways to UQ. Contact UQ Admissions for advice.

Improving an entry score (upgrading)

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.

The step-by-step process

1. SELECT THE PROGRAM YOU WANT TO STUDY

Search for your program in this guide or on UQ’s Courses and Programs website at www.uq.edu.au/study (please check that you have met all academic and other entry requirements and that you have met any specific program deadline).

2. APPLY

Current Year 12 students: go to Twelve-to-Tertiary (TTT) at www.qtac.edu.au.


Students from other universities: if you wish to study one or more courses at UQ as credit towards your program, download a Cross-Institutional Enrolment form at www.uq.edu.au/myadviser/forms-online (but first check that your home institution will give you credit).

3. ACCEPT OFFER

2. Select Current applicant: Login
3. Select the Accept offer option
4. Accept your offer
5. Go to www.uq.edu.au/interlingestu and follow instructions

4. ENROL

1. Access your first year planner to find out what you must study
2. Choose your courses (see myAdviser at www.uq.edu.au/myadviser for help)
3. Enrol online via myAdviser at www.mad.uq.edu.au
4. Plan your timetable and sign on to classes
5. Pay fees

5. ATTEND ORIENTATION AND BEGIN YOUR UQ STUDY EXPERIENCE

Held in the week before semesters 1 and 2, orientation is an important step in starting university: get your student ID card; attend compulsory Faculty or School information and welcome sessions, and get your questions answered in time for when you start formal classes the following week.

HOW TO APPLY

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

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

Comprehensive information is also available on the QTAC website: www.qtac.edu.au/apply.

You may list up to six preferences for programs offered at any participating QTAC institution, but you can only receive one offer, which will be for your highest eligible preference. 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 last desire last.

Check the QTAC website for the 2015 application deadlines.

QTAC
www.qtac.edu.au
Online enquiry form: see www.qtac.edu.au/Admissions/Enquiry.html
Phone 1300 467 822

UQ Admissions
www.uq.edu.au/study/admissions
Email admissionsenquiries@uq.edu.au
Phone (07) 3365 2203

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 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.

APP CENTRAL

Explore UQ on your phone, tablet or iPad through one of our many apps. Access exclusive content, videos, image galleries and other interactive features in our publications, find resources to help your studies, or take advantage of our many other exciting programs.

ORGANISATION AND NAVIGATION

UQ Checklist
You’ve received your offer to study at UQ, so what next? Use this checklist to ensure you complete everything you need to do in the right order by the right time – and find out who can help you.

UQ Timetable Planner
Plan your semester timetable with UQ’s official course timetable planner. Add courses to see where conflicts may arise and then easily reschedule. Check your timetable at any time on any device. https://timetableplanner.app.uq.edu.au/

Learn.UQ Mobile
Blackboard Mobile Learn makes it easier for you to keep up with your courses by letting you access them whenever and wherever you want – now on WiFi and cellular!

UQnav
This free mobile app contains searchable maps of UQ’s campuses. Enter your destination and UQnav will show you where it’s located – lecture theatres, laboratories, school and faculty offices, coffee shops, entertainment venues and more.

NEWS AND INFORMATION

UQ Open Day
Outlining the full range of information sessions and activities available, this app is perfect to use at each Open Day event to make the most of your day.

UQ Student Guide
Discover information about UQ campuses, services, lifestyle and social opportunities; plus where to live, what costs to expect and what English language requirements you need. Use the interactive program guide to help choose the program you wish to study, follow the step-by-step application process, and watch videos of life at UQ, student achievements and UQ’s groundbreaking research.

Contact
UQ’s key alumni and community publication, Contact includes insightful in-depth feature articles, opinion pieces, campus news, book reviews, alumni events and more.

OTHER APPS (THIRD PARTY)

Skype
Free voice and video calls to anyone else on Skype, whether on Android, iPhone, Mac or PC, as well as IMs to your friends and family, no matter where they are.

OneDrive
OneDrive is the place to store your files so you can access them from virtually any device.

OneDrive (THIRD PARTY)

Free voice and video calls to anyone else on Skype, whether on Android, iPhone, Mac or PC, as well as IMs to your friends and family, no matter where they are.

Free voice and video calls to anyone else on Skype, whether on Android, iPhone, Mac or PC, as well as IMs to your friends and family, no matter where they are.

Free voice and video calls to anyone else on Skype, whether on Android, iPhone, Mac or PC, as well as IMs to your friends and family, no matter where they are.

Skype (THIRD PARTY)

ONE CAREER

More than 11,000 international students from 140 countries currently call UQ home.

INTERNATIONAL STUDENTS

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 the Institute of Continuing and TESOL Education (ICTE-UQ).

Study Abroad and Incoming Exchange
If you are an International student currently enrolled at an accredited overseas university, you may be eligible to study at UQ for one or two semesters under the Study Abroad and Incoming Exchange program. Credit gained at UQ is usually transferred towards your degree at your home university, where you will continue to pay your tuition fees.

More information www.uq.edu.au/studyabroad

Fees, charges and 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, medical (pre-departure) fees, tuition fees, general living expenses, return airfares, and Overseas Student Health Cover (OSHC) when you plan your budget.

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.

Department of Immigration and Border Protection (DIBP) www.immi.gov.au

Fee information www.uq.edu.au/international/fees

Fee calculator www.uq.edu.au/study/fee calculator

Services for international students
Upon your arrival, UQ representatives can meet you at the airport and then help you organise orientation and academic preparation sessions. International Student Advisors can help you quickly settle into life as a UQ student and can also answer your questions about health services, family matters, schooling or childcare, social events, and cultural or religious organisations.


Applying to UQ
For instructions on how to apply to UQ and to download an application form, go to www.uq.edu.au/international-students/apply-to-uq

International Enquiries
Email (online enquiry form) www.uq.edu.au/international-students/enquire-online
Phone +61 3 8676 7004 (outside Australia) 1800 671 980 (within Australia)
### QUICK REFERENCE GUIDE

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>CODE</th>
<th>DURATION</th>
<th>LOCATION</th>
<th>ENTRANCE REQUIREMENTS</th>
<th>PREREQUISITES</th>
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<tbody>
<tr>
<td>Engineering (Honours)</td>
<td>717001</td>
<td>4</td>
<td>St Lucia</td>
<td>6 Qld Year 12 or equivalent, English, Maths B, plus Chemistry or Physics</td>
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<tr>
<td>Engineering (Honours) / Arts</td>
<td>717401</td>
<td>E5</td>
<td>St Lucia</td>
<td>6 Qld Year 12 or equivalent, English, Maths B, plus Chemistry or Physics</td>
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<td>Engineering (Honours) / Biotechnology (Honours)</td>
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<td>St Lucia</td>
<td>6 Qld Year 12 or equivalent, English, Maths B, plus Chemistry or Physics</td>
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<tr>
<td>Engineering (Honours) / Business Management</td>
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<td>E5</td>
<td>St Lucia</td>
<td>6 Qld Year 12 or equivalent, English, Maths B, plus Chemistry or Physics</td>
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</tr>
<tr>
<td>Engineering (Honours) / Commerce</td>
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<td>St Lucia</td>
<td>6 Qld Year 12 or equivalent, English, Maths B, plus Chemistry or Physics</td>
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<td>Engineering (Honours) / Economics</td>
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<td>E5</td>
<td>St Lucia</td>
<td>6 Qld Year 12 or equivalent, English, Maths B, plus Chemistry or Physics</td>
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<tr>
<td>Engineering (Honours) / Information Technology</td>
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<td>E5</td>
<td>St Lucia</td>
<td>6 Qld Year 12 or equivalent, English, Maths B, plus Chemistry or Physics</td>
<td>27</td>
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<tr>
<td>Engineering (Honours) / Science</td>
<td>717101</td>
<td>5</td>
<td>St Lucia</td>
<td>6 Qld Year 12 or equivalent, English, Maths B, plus Chemistry or Physics</td>
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### MORE STUDY OPTIONS

UQ offers more than 60 exciting programs to help build your dream career. For more details, check out our range of publications, or go to [www.uq.edu.au/study](http://www.uq.edu.au/study)

**Architecture**
Bachelor of Architectural Design
Master of Architecture

**Arts, Education and Social Sciences**
- Arts
- Communication
- Education (Primary)
- Education (Secondary)
- International Studies
- Journalism
- Music
- Social Science

**Business and Economics**
- Business Management
- Commerce
- Economics
- International Hotel and Tourism Management

**Engineering**
- Chemical
- Chemical and Biological
- Chemical and Environmental
- Chemical and Materials
- Chemical and Metallurgical
- Civil
- Civil and Environmental
- Civil and Fire Safety
- Civil and Geotechnical
- Electrical
- Electrical and Biomedical
- Electrical and Computer
- Mechanical
- Mechanical and Aerospace
- Mechanical and Materials
- Mechatronic
- Mining
- Mining and Geotechnical
- Software

**Central guides**
- Australian Undergraduate
- International Undergraduate and Postgraduate

**Copies of these publications are available through UQ Admissions.**
Phone +61 7 3365 2203
Email admissionsenquiries@uq.edu.au
Web [www.uq.edu.au/study](http://www.uq.edu.au/study)
MORE INFORMATION

Faculty of Engineering, Architecture and Information Technology
Phone +61 7 3365 4777
Email admin@eait.uq.edu.au
Web www.eait.uq.edu.au

UQ Admissions
Phone +61 7 3365 2203
Email admissionsenquiries@uq.edu.au
Web www.uq.edu.au/study

UQ International Admissions
Phone +61 7 3365 7941/ 1800 671 980
Email study@uq.edu.au
Web www.uq.edu.au/International

Undergraduate Scholarships and Prizes Office
Phone +61 7 3365 7113
Email ugscholarships@uq.edu.au
Web www.uq.edu.au/study/scholarships

Student Services – Accessibility
Phone +61 7 3365 1704
Email disability@uq.edu.au
Web www.uq.edu.au/myadvisor/students-with-a-disability

In the event of any conflict arising from information contained in this publication, the material approved by The University of Queensland Senate shall prevail.
CRICOS Provider Number 00025B

KEY DATES

Tertiary Studies Expo (TSXPO)
RNA Showgrounds
Saturday and Sunday, 18-19 July 2015

UQ Open Day
St Lucia campus
Sunday, 2 August 2015
Gatton campus
Sunday, 16 August 2015

OP Results Advice Night
Monday, 21 December 2015

Semester 1, 2016
Classes commence
Monday, 29 February 2016