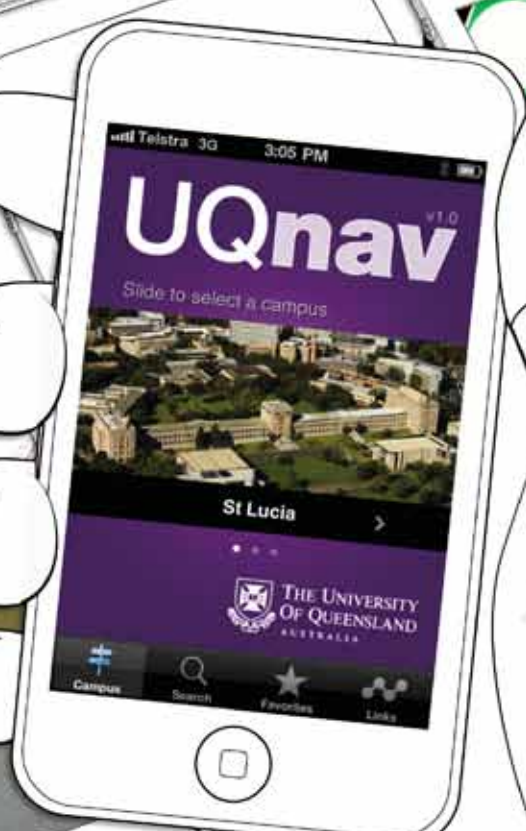




THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

Undergraduate programs

INFORMATION & COMMUNICATIONS TECHNOLOGY 2012



THE UQ ADVANTAGE

The University of Queensland enjoys a long tradition of success – here are some excellent reasons to make UQ your university in 2012.

CHOICE OF PROGRAMS

You will find one of the most comprehensive ranges of high quality programs in Australia at The University of Queensland, with around 375 programs and more than 4000 courses offered at undergraduate and postgraduate level.

SUCCESSFUL GRADUATES

UQ has a tradition of leadership in all spheres of society, both here and overseas: we include a Nobel Laureate, an Oscar winner, two Governor-Generals, several governors, scores of politicians and Olympic athletes, and countless businesspeople, researchers, and inventors among our graduates.

INTERNATIONAL REPUTATION

In 2010, QS World University Rankings placed UQ in the top 50 universities in the world. *Times Higher Education rankings 2010* placed UQ in the top one percent worldwide. The University is also one of only three Australian members of Universitas 21, a select international network of comprehensive, research-intensive universities.

TOP FACILITIES

UQ is constantly upgrading its teaching facilities to meet the needs of both students and industry. Our building program provides access to industry and research professionals in facilities like the recently completed Pharmacy Australia Centre for Excellence at Woolloongabba and the \$100m Veterinary School at UQ Gatton.



EXCELLENT TEACHERS

UQ has won more national teaching awards than any other university in the country. The University has more than 2600 highly-qualified academic staff dedicated to teaching and research, many of whom are recognised internationally as leaders in their fields.

LEADING RESEARCH

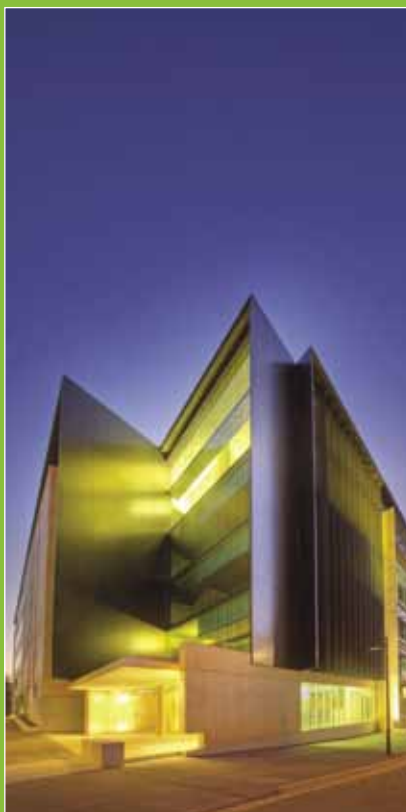
UQ boasts some of Australia's best and brightest inquiring minds and is one of the country's top research universities across any measures, including annual PhD graduations, commercialisation of discoveries, industry collaboration, Excellence in Research for Australia survey results, and funds received from both government and the private sector.

GREAT CAREERS

UQ qualifications are highly regarded by Australian and international employers, and the employment rate for UQ graduates is considerably higher than the national average. The multitude of programs reflects the diversity of career opportunities available to graduates, and the industry links ensure success.

COMPLETE PACKAGE

You will enjoy the sense of community that pervades UQ's cosmopolitan campuses at St Lucia, Ipswich, Gatton and Herston. The campuses are renowned as being among the most beautiful and well-equipped in Australia, and offer excellent sporting and cultural facilities plus a broad range of social activities.

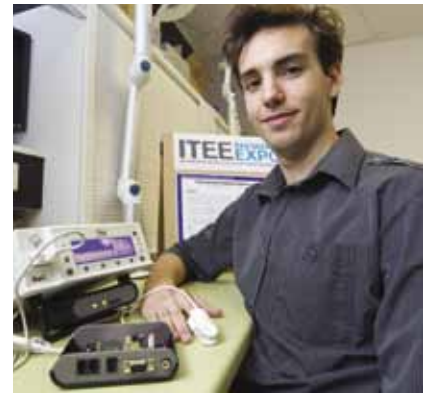


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UQ ICT – shaping the world

Information & Communications Technology (ICT) is part of so many aspects of our daily lives and the key for much innovation, including significant health inventions like MRIs and environmental solutions like hybrid cars.

ICT covers all forms of computer and communications equipment and software used to create, design, store, transmit, interpret and manipulate information in its various formats.

Laptops, tablets, televisions, mobile phones & apps, social networks, and the internet are just some examples of the diverse array of life-changing products and applications that are enabled by ICT.

Studies in ICT give you the opportunity to combine many disciplines, such as information technology, engineering, business and design. The skills acquired in an ICT degree can be applied to everything from satellites to iPhone apps, from medical imaging to computer games.

While many people think of Information Technology when they think of ICT, Multimedia Design, Computer Systems Engineering and Software Engineering also lead to careers in ICT.

If you want to make a positive difference to the world, immerse yourself in the rewards of a career in ICT.





WHY STUDY INFORMATION & COMMUNICATIONS TECHNOLOGY?

We live in a rapidly changing world that is constantly transformed by new technologies. Information & Communications Technology (ICT) offers you the opportunity to make a positive difference to our future.

ICT professionals are in strong demand and help shape the world. They are pushing the boundaries in a wide range of areas, including the internet and multimedia communications. They develop entertainment applications such as computer games, and help companies and community organisations to improve their efficiency and interactions with people. ICT professionals also help improve our human infrastructure and the environment. Challenges such as sustainable development and climate change require large-scale, complex systems to solve problems. ICT is essential to meeting these challenges.

By studying ICT you become part of the vibrant and important world of technology. Your study program gives you a solid foundation in software and hardware, and will equip you with advanced theoretical understanding and practical skills to enable you to adapt to ongoing changes throughout your career.

At UQ, lecturers from industry and work experience programs ensure that you get exposed to your future working environment while you progress through your degree.

UQ offers a wide range of ICT programs.

You can study Information Technology or Multimedia Design, and you can also include ICT majors as part of your degree in Engineering, Arts or Science. In this prospectus you will find an overview of the many programs that UQ ICT offers.

Find out now how you can shape the world.

THE UQ ICT EXPERIENCE

UQ offers industry-focused ICT programs that prepare students to work with current technologies and programming languages, as well as those that haven't even been developed yet.

Industry-focused programs

In a dynamic industry like ICT, requirements are constantly changing. Therefore, UQ's ICT programs give you the necessary knowledge and skills to allow you to understand the many facets of ICT and the ability to respond to constant progression.

Your studies are structured around a variety of study plans developed in conjunction with industry. These plans are designed to prepare you for professional positions in the ICT industry and give you a strong foundation for your career. Through a combination of industry projects and placements, you can also experience ICT in industry while you are still studying.

See page 7 for more information about industry connections.

Hands-on learning

Each of our degree programs has a core component of project work using the latest tools. In your final year, we offer industry projects to allow eligible students to work for several months in real workplaces. This work experience counts as part of your degree and is well-recognised by industry employers as excellent preparation for the work environment. All UQ projects are relevant to current industry needs and give students an opportunity to use their ICT and business skills. Industry certification courses licensed by major software developers, such as Microsoft and Cisco, can also contribute towards your degree.

Innovation Expo and Multimedia Design Exhibition

Students in the Bachelor of Information Technology (Honours), Bachelor of Multimedia Design, and final year Bachelor of Engineering (ICT Majors) have the chance to demonstrate their work at the annual UQ Innovation Expo and Multimedia Design Exhibition.

Both events are attended by business and government representatives. The exhibitions' growing reputation has established them as career stepping-stones for UQ ICT students.

Diverse research opportunities

UQ's ICT students benefit from close interaction with UQ academics and postgraduate students. Research is about innovation and discovery, and UQ is Queensland's top-ranked research university with a worldwide reputation. UQ ICT academics and students are at the forefront of exciting research in ICT. More than 50 academic staff and 250 research higher degree students are active in a diverse range of research areas, such as Complex & Intelligent Systems, Microwave & Optical Communications, Power & Energy Systems, Security & Surveillance, Systems & Software Engineering and Ubiquitous Computing.

World class ICT programs

UQ's ICT and Engineering programs have ranked in the top global tier of universities in the 2011 QS World University Ranking, as well as the Times Higher Education World University Ranking, with UQ being the only Queensland university appearing in the top 50 of technology programs.

Teaching excellence

Our award-winning ICT teaching staff have helped make UQ one of the top teaching and learning institutions in Australia. Students learn from and work with leading academics and researchers who pass on the latest methods that are not always available in textbooks. UQ staff have won more national teaching awards than staff from any other university in Australia.





UQ students Christopher Ham, Edward Hall, Patrick Mahoney and Justin Rahardjo developed a novel concept for an adaptive keyboard as part of the UIST 2010 Student Innovation Contest. They were invited to attend the ACM Symposium on User Interface Software and Technology in New York, where they were awarded the 'Best Implementation 2nd Place'.

State-of-the-art facilities

UQ ICT offers an extensive range of facilities and equipment to support your studies, including:

- modern lecture theatres, seminar rooms and laboratories
- more than 10 computing laboratories with 24-hour access to high-end workstations
- specialist laboratories in biomedical, robotics, electronics, computer systems, communications, power systems, optics, signal processing and microwaves
- studios for Multimedia Design with high-end video, sound and animation production, including professional audio input and mixing equipment
- the School network provides gigabit connectivity and supports more than a tetrabyte of disk storage with several multi-processor high-end UNIX servers
- wireless networking
- dedicated team of technical support staff
- self-directed study area where you can plug in your own computer any time
- access to the Internet, laser printing, photocopying facilities, and large-scale print facilities.

Scholarships

UQ offers a range of scholarships and prizes to ICT students, including a number of Excellence and Equity scholarships for Year 12 graduates, valued up to \$12,000 each. There are also scholarships for international students that cover tuition fees.

To encourage and enable school-leavers to join UQ programs leading to careers in the Information and Communications Technology industry, a significant number of ICT Enabling Scholarships valued at a minimum of \$3,000 are awarded each year to eligible students who apply for and take up a place in the Bachelor of Information Technology, the Bachelor of Multimedia Design, or ICT-related fields in the Bachelor of Engineering.

For more information see page 30 or visit uq.edu.au/ict/scholarships

OCA - On Campus Alumni

The ITEE On Campus Alumni Subchapter, or OCA (pronounced "ocker"), is a student-led organisation that promotes professional development and networking of UQ ICT students with peers, staff and industry.

OCA is liaising with industry groups and professional societies to develop networks which will benefit UQ ICT students. Contacts are underway with the Young IT Professionals chapter of the ACS (Australian Computer Society), the IEEE (Institute of Electrical and Electronics Engineers) and Sun Microsystems to explore opportunities for shared activities.

Networking events of past years include OCA staff/student debates, public lectures and competitions. OCA also organises social events such as LAN parties, BBQs and cocktail parties.



Software engineering graduate Ben Appleton now works for Google Australia

CAREERS IN ICT

The Facts

The ICT industry is constantly growing and so are employment opportunities. Even though the number of ICT graduates is rising, the demand for ICT professionals remains higher. Therefore, industry and recruitment agencies are currently facing a shortage of qualified people.

In April 2011, the Clarius Skills Index showed a shortfall of 2200 computing professionals to service industry and government needs. The index also reported salary increases of 10-20% for ICT professionals.

The IT category of Australia's leading online job site seek.com.au consistently has more vacancies than any other category.

Diverse career paths

The Queensland Government's ICT Careers website summed it up: "There are over 150 job definitions within this industry – most of which you have probably never considered as an ICT career".

Software designer, hardware engineer, multimedia designer, enterprise architect, system security specialist, network analyst, games developer, IT consultant, and web developer are just a few of the diverse career options that ICT offers.

People in the ICT industry work on large-scale projects, on business process re-engineering, or on human problems, all requiring interaction with people and being part of a team. The hours are often flexible and it is possible to work from home by using mobile technology.

Employers increasingly seek ICT-trained people who possess a combination of business, problem-solving and interpersonal skills, who can communicate effectively and develop relationships with customers, suppliers, business partners and within teams.

The demand for qualified ICT professionals is both local and international. ICT skills are readily transferable from one employer to another and ICT is ever-evolving with jobs being developed to meet the industry needs across a wide range of new areas. Some of these aren't even identified yet, so the industry needs people who are flexible, creative and unafraid of change.

Where UQ graduates are now

- Mandy Ross studied Information Technology and is now the chief information officer at Wotif.com;
- Emily Pearce studied Multimedia Design and is now an Interaction Designer for Flight Centre;
- Ben Appleton studied Software Engineering and now works as a technical lead/manager for Google Australia;
- John Ngui studied Information Technology and now works as a business analyst for Suncorp;
- Anthony Massingham studied Multimedia Design and is now an Actionscript Programmer at BlueDog Training;
- Mark Wakabayashi studied Information Technology and now works as a software engineering researcher at UQ.

"I have been in the ICT industry for many decades and have never been more optimistic. We supply ICT personnel to Australia's leading financial institutions, resource and engineering companies. Without hesitation I can say that every new initiative in the sectors we service, both here and globally, will be ICT driven. It is a very exciting future, which will bring graduates to the forefront of commercial decision making. Companies that lead the field in innovative business-driven ICT, will lead their markets. The corollary is this: if industry executives don't understand ICT from the 'inside-out', the businesses they run will be incapable of market leadership. They will be left behind. ICT graduates are their future leaders."

PAUL HALSTEAD
MANAGING DIRECTOR, ADAPS IT RECRUITMENT

INDUSTRY CONNECTIONS

Cooperative Education for Enterprise Development (CEED) Placement Program

The CEED Placement Program integrates industry-based training with the Bachelor of Information Technology by allowing students to complete their final year thesis project in industry.

Students are given the opportunity to apply theoretical knowledge to a real life project, being responsible for the planning and management of a project to completion, to gain meaningful industry experience. As a CEED student you will typically work on-site for three to four days per week throughout the semester. You will be co-supervised by a mentor from industry and an academic advisor at the University. You will also receive a tax-free scholarship.

Over 640 CEED projects have been completed and 80 percent of the students have received a distinction or high distinction for their final year thesis. Many students go directly into graduate careers as a result of their project.

Internships

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

Credit for professional industrial certification

If you wish to complete or have completed industrial certification courses licensed by major software developers, you can gain credit towards your UQ bachelor degree in Information Technology or Multimedia Design. Credit is available for accredited Microsoft Certified Systems Engineer (MCSE) and Cisco Certified Network Associate (CCNA) courses undertaken with a UQ-approved provider.

To reduce the cost to students pursuing this option, UQ has made arrangements with approved providers to teach MCSE and CCNA on-campus during semester breaks.

Industry lectures

Each semester, guest speakers from the ICT industry come to the UQ campus to talk about their work and the latest ICT trends.

Guest speakers from past semesters include ICT professionals from Google, Suncorp and software provider SAP.

Industry Advisory Boards

Practising ICT professionals are actively involved in ensuring UQ's ICT programs meet the requirements of industry. Industry Advisory Boards meet on campus to consider trends in IT, multimedia and engineering, and to plan curriculum changes. Industry partners also provide feedback on UQ graduates' progress.

Employer visits

Every year, numerous ICT professionals are drawn to the student showcases Innovation Expo and Multimedia Design Exhibition to examine student work and meet potential future employees.

UQ runs a student and graduate employment program that provides students with information about job vacancies, an online career hub, career events and overseas opportunities. The University also organises international, national and local employer visits to the St Lucia campus.

UQ Careerhub

UQ is devoted to kick-starting your career. The Careerhub is an exclusive online jobs board linking UQ students and graduates to vacancies specific to degree programs. Careerhub lists work experience, vacation work, part-time and full-time jobs from employers who are targeting current UQ students or recent graduates.

The Careerhub also lists workshops and factsheets on job search strategies, resumes, cover letters, assessment centres, interviews and a whole lot more on careers and graduate employment.



IT graduate Michelle Wise works as a team leader at Technology One

TERMINOLOGY EXPLAINED

You will hear a lot of new terms at University: here is an explanation of some of them...

Australian (domestic) student

A student who is an Australian citizen or permanent resident, or a New Zealand citizen.

Bachelor degree

A qualification awarded for the first level of study undertaken at university, generally requiring three to five years of study, depending on the bachelor degree studied.

Course (formerly known as subject)

A component of study within a program, similar to a subject at school. Full-time students usually study four courses per semester.

Dual program

A combination of two UQ degree programs undertaken at the same time. These are sometimes called dual degrees, parallel degrees, combined degrees, or double degrees.

Elective

A course that you can choose to study from a set of options. Some UQ programs allow electives from outside your main area of study.

Entry scores

Undergraduate students are given an entry score based on high school studies or other post-secondary studies. If you complete high school studies in Queensland you are assigned an Overall Position (OP). Year 12 students in other Australian states are assigned an Interstate Transfer Index (ITI). All other students are assigned a rank. Once you have completed a full year of study at UQ, your OP or ITI is converted to a rank based on Grade Point Average (GPA).

Grade point average (GPA)

The average grade of your results, weighted by the unit value of each course. GPA is determined on a semester basis and ranges from 1 (lowest) to 7 (highest).

Faculty

A major organisational unit within UQ, with responsibility for academic programs, e.g., Faculty of Arts. Faculties may have a number of sub-faculty academic units called Schools, e.g., School of ... The head of a faculty is called an Executive Dean.

Honours

Students planning to go on to research programs (e.g. Master of Philosophy, PhD), are usually required to complete a bachelor program with honours. To qualify for honours, students must achieve high enough results in their bachelor degree. Honours is available either as an additional year of study or embedded as on-course Honours.

International student

A student who is not an Australian citizen or permanent resident, nor a New Zealand citizen, and is enrolled or proposes to enrol at an institution in Australia. Temporary residents of Australia are also classified as international students.

Major/Extended/Dual Major

A major or extended major is an area of specialised study within a program, for example, chemistry. A major, extended major, or dual major may be a formal requirement in a program.

Minor

A small group of courses in a discipline. A minor is worth approximately half the value of a major.

Overall Position (OP)

Overall Positions, or OPs, provide a State-wide rank order of students (on a 1 to 25 scale, 1 being the highest) based on your achievement in Authority subjects studied for the Queensland Senior Certificate. Your OP shows how well you have performed in your senior studies when compared with the performances of all other OP-eligible students in Queensland.

Postgraduate programs

Programs studied after graduating from undergraduate degrees which include graduate certificates, graduate diplomas, masters, and doctorates.

Program (formerly known as course)

A sequence of study involving enrolment, study and graduation, normally awarded with a qualification such as a bachelors degree, graduate diploma, or certificate.

Program code

A unique identifying number assigned by the University to a program.

QTAC

The Queensland Tertiary Admissions Centre (QTAC), the central admissions body for all Queensland undergraduate programs.

Semester

The University teaching year is divided into three semesters: Semester 1, Semester 2, and Summer Semester. Most programs only require enrolment in Semesters 1 and 2 each year.

Study Abroad

A program where students enrolled at an overseas university study at UQ for one or two semesters as part of their home university degrees.

Undergraduate programs

Usually refers to first-time university programs including diplomas and bachelors degrees.

Unit

The value of a course (#). Most courses at UQ are worth two units but some are higher.

UQ Terminology

www.uq.edu.au/study (see UQ Toolkit)



Forgan Smith Building, St Lucia campus

RWH HAWKEN SCHOLARS

The RWH Hawken Scholars program emulates Professor Hawken's vision of the complete graduate needing a combination of wide ranging experience and cultural insights coupled with academic excellence.

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

As a Hawken Scholar you will be continuing a proud tradition of excellence and achievement at UQ, following in the footsteps of other Hawken Scholars who have gone before you.

The Hawken Scholars program is a great way to make the most of your university experience. You will be introduced to industry, community and corporate networks, and have the opportunity to further develop your skills and knowledge through priority access to research, international exchange and industry sponsored opportunities.

RWH Hawken Scholars are supported and encouraged to pursue:

- Summer Research scholarships,
- Travel scholarships for overseas exchange studies,
- Valuable industry sponsored scholarships, such as Queensland Resources Council (QRC) scholarships valued at an additional \$4000 per year, and
- Networking opportunities with industry and alumni.

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

- Annual leadership function
- Industry networking colloquium
- Ambassadorial roles
- Student mentoring opportunities

Program requirements

RWH Hawken Scholars are required to maintain a GPA of 6.0 or higher throughout their degree and complete all standard requirements of the undergraduate program.

How to apply

High-achieving students who enrol in an Engineering, Architecture, Multimedia Design, or Information Technology degree and receive a UQ Vice Chancellor's or UQ Excellence Scholarship automatically become a Hawken Scholar. Students must apply for a UQ Excellence Scholarship through the Undergraduate Scholarships & Prizes Office at www.uq.edu.au/study/scholarships. Students who then enrol in one of the above undergraduate degrees will be invited to enter the RWH Hawken Scholars program.

More information:
www.eait.uq.edu.au/hawkenscholars



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 1919 and worked on many major projects including Brisbane's Story Bridge. He was an inspiring member of The University of Queensland academic staff for over 35 years.



Mechatronic Engineering student Craig Haywood examined the capabilities of the modern smart-phone as an engineering display platform through the design and implementation of a portable digital oscilloscope

HOW DO I CHOOSE A PROGRAM?

Information & Communications Technology is a broad term that encompasses a wide variety of areas.

UQ offers the following ICT-focused degrees:

- Bachelor of Information Technology, and
- Bachelor of Multimedia Design.

ICT-focused majors are offered in the following degrees:

- Bachelor of Engineering,
- Bachelor of Science, and
- Bachelor of Arts.

The information in the table on the right matches specific areas of interest with recommended study areas within ICT and its associated careers. Use the table to help you identify your areas of interest and determine which study area suits you best.

The table only includes some of the many possible areas of interest. More information about the available study areas can be found in this prospectus and on our website at www.uq.edu.au/ict.

Easy to follow study plans

The first year of UQ's ICT programs is structured to give you a taste of the fundamentals of all ICT studies. As you get to know what you like or confirm what you already like, you can specialise in the second and third year. Our suggested study plans can help you plan your degree.

Dual degrees

The University of Queensland also offers dual programs where you can study two degrees at the same time. This gives you greater scope for employment and allows you to focus on your specific areas of interest. Dual programs are shorter in length than completing both degrees separately.

For a list of dual programs see page 26 or visit our website at www.uq.edu.au/ict

Flexible pathways

UQ degrees in ICT are designed so that it is easy for you to transfer to one of our other degrees, or to transfer to UQ from another university. For example, the first year of the Information Technology degree is designed to make it possible for you to transfer to the Bachelor of Engineering in your second year should you decide to do so.

Cross-disciplinary ICT degrees

The Bachelor of Information Technology offers majors that are cross-disciplinary with substantial components available outside the IT program. This allows you to gain experience not only in ICT but also in other areas, such as business, sciences or the arts, expanding your career opportunities.

ICT as a Minor

If your main interests lie outside Information & Communications Technology, but you still want the flexibility and expanded career opportunities you would get by including ICT in your studies, then you could choose the ICT options of the:

- Bachelor of Science (see page 24),
- Bachelor of Arts (see page 25), or
- Bachelor of Communication (Interaction Design).

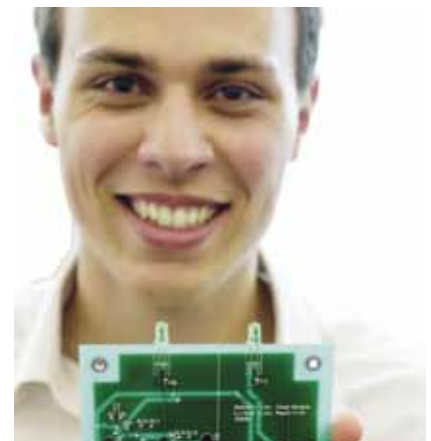
Further study

UQ ICT graduates can undertake a fourth year of honours or further study programs leading to graduate certificate, graduate diploma, masters or doctorate in most ICT study areas and specialities.

Please visit our website for postgraduate study plans at www.uq.edu.au/ict

ICT degrees and majors offered at UQ reflect the broad range of career opportunities that are available to ICT graduates. The below table will help you to determine which study area you are best suited to according to your areas of interest.

INTERESTS	STUDY AREAS													
	BIOINFORMATICS	COMPUTER SYSTEMS AND NETWORKS	COMPUTER SYSTEMS ENGINEERING	ENTERPRISE INFORMATION SYSTEMS	GAMES DESIGN	HEALTH INFORMATICS	HUMAN-COMPUTER INTERACTION	INFORMATION SECURITY	MULTIMEDIA DESIGN	SCIENTIFIC COMPUTING	SOFTWARE DESIGN	SOFTWARE ENGINEERING	SOFTWARE INFORMATION SYSTEMS	SOFTWARE SYSTEMS AND AEROSPACE
3D and interactive media					✓		✓		✓		✓			
Aerospace industry			✓					✓				✓		✓
Biomedical and health industries	✓					✓							✓	
Biotechnology	✓									✓				
Business analysis				✓				✓					✓	
Computational biology	✓									✓				
Designing software							✓	✓	✓	✓	✓	✓		
Developing games					✓		✓		✓		✓	✓		
Forensic sciences	✓									✓				
GPS, maps and navigation		✓					✓						✓	
How computers work		✓	✓									✓		
Management of information				✓									✓	
Mathematics								✓		✓				
New media and inter-media					✓		✓		✓					
Programming											✓	✓		
Security & Surveillance		✓						✓						
Social media					✓		✓		✓					
Technology and systems		✓	✓				✓					✓	✓	✓
Transport industry		✓	✓									✓		✓
Web design							✓		✓		✓	✓	✓	
PAGE	12-14	12-14	20-22	12-14	16-18	12-14	12-14	12-14	16-18	12-14	12-14	20-22	12-14	20-22



INFORMATION TECHNOLOGY

BACHELOR OF INFORMATION TECHNOLOGY

Duration 3 years full-time. Part-time equivalent available to Australian residents and citizens

Location St Lucia

Delivery mode Internal

Prerequisites Qld Year 12 or equivalent; English; Mathematics B is recommended

QTAC code 733001

2011 entry score OP 12; Rank 76; ATAR 73.40; IB 26

Honours Available as an extra year of study

The Bachelor of Information Technology builds a solid foundation in software and hardware through first-class teaching and industry-focused projects.

What will I study?

The underlying principles of Information Technology (IT) are based in mathematics, logic, physics and psychology. The UQ Bachelor of Information Technology (BInfTech) is project-focused, training students in computer systems and their applications. Students develop the ability to process data or information in order to solve problems, and study programming languages, algorithms and information structures.

Work experience opportunities

Students of the Bachelor of Information Technology have the opportunity to apply theoretical knowledge in the work-based CEED (Cooperative Education for Enterprise Development) Placement Program.

Find out more about our industry experience programs on page 7.

Where will I work?

IT skills are applied to a diverse range of applications in a wide range of industries from areas like e-commerce to developing computer games, and hence our graduates find employment in a wide range of jobs. Their roles in systems and software development are as analysts, architects, designers, developers, programmers and project managers. They can be involved in managing sophisticated computing facilities, such as distributed computer systems implemented over complex computer networks, or business information systems supported by large databases.

Who recognises my qualification?

Professional membership and accreditation is available from the Australian Computer Society (ACS), the recognised association for ICT professionals, with a large and active membership. Our graduates are eligible to become associates of the ACS upon graduation and full professional members after four years relevant experience.

Can I do more than one degree?

The Bachelor of Information Technology may be taken as a dual program with a number of programs. See the dual programs section on page 26 for more details.

What about scholarships?

A wide range of scholarships is available to students of the Bachelor of Information Technology. Scholarship opportunities from UQ, the Faculty of Engineering, Architecture & Information Technology, and the School of Information Technology and Electrical Engineering are listed on page 30.

What are the majors?

The Bachelor of Information Technology offers flexible study plans. You can choose your own study plan to allow you to focus on your desired outcomes or follow one of the standard plans (majors) that are designed to provide typical career outcomes.

Bioinformatics for a career in the computing behind the new biology, including:

- computer science
- information systems analysis
- genetics
- molecular biology.

Computer Systems and Networks for a career in developing and managing computer networks, distributed systems and their applications, including:

- programming
- computer architecture
- computer networks
- operating systems
- systems security
- distributed systems
- Internet applications.



Enterprise Information Systems for a career in designing enterprise-wide and multi-enterprise information systems, including:

- database systems
- information system analysis
- design
- programming
- e-commerce
- Web technologies
- business and organisational issues.

Games Modelling for a career in developing high-end games and similar software, which may involve:

- mathematics
- 3D graphics
- programming
- physics
- games design.

Health Informatics for a career in designing and maintaining computer systems for health care, which may involve:

- computer science
- information systems
- health sciences.

Human-Computer Interaction for a career in designing human-oriented computer and network systems, which may involve:

- social & mobile computing
- visual thinking
- interaction design
- programming.

Information Security for a career in building, maintaining and managing secure computer networks and systems, including:

- security protocols
- cryptography
- e-commerce
- computer networks
- programming

Scientific Computing for a career in solving scientific problems, modelling, simulation and visualisation, which may involve:

- mathematics
- scientific computing
- visualisation
- modelling

Software Design for a career in the creation and management of software applications, which may involve:

- programming
- software engineering
- project management
- needs analysis
- specification and process
- Internet design.

Software Information Systems for a career in developing and managing data-intensive information systems, which will build skills in:

- web information systems
- large scale data management
- business and scientific applications.

More information

www.uq.edu.au/ict

Phone +61 7 3365 2097

Email enquiries@itee.uq.edu.au

INFORMATION TECHNOLOGY CONT.

STUDY PLANS

What is my study plan?

The study plans on this page are only indicative and do not include all courses or all areas of interest. For an outline of each area of interest or a detailed indicative study plan, please visit our website at www.uq.edu.au/ict

Build your own Study Plan

At UQ we offer a range of majors so you can choose your main area of interest. Alternatively, you can build your own study plan. You will study a number of compulsory core courses and can build your chosen areas of study around them. Electives allow you to either focus on a particular area of interest, or to broaden your background. Academic advisors are available to assist you with this.

Flexible Study Plans

If you enrol in the Bachelor of Information Technology and decide that you would prefer to study Software Engineering, you have some flexibility to change. First year IT courses are also available in the Bachelor of Engineering (Software Engineering) program.

By choosing additional first year courses needed for the BE degree as electives in the BInfTech, you can satisfy the entry prerequisites for Engineering and, subject to satisfactory grades, proceed to the second year of the BE (Software Engineering).

More information

www.uq.edu.au/study
Email enquiries@itee.uq.edu.au

No Specific Major

Year 1

Introduction to Web Design
Introduction to Software Engineering I
Introduction to Information Systems
Discrete Mathematics
Introduction to Computer Systems
Electives

Year 2

Programming in the Large
Network and Operating Systems
Principles
Relational Database Systems
Software Engineering Studio
Human-Computer Interaction
Electives

Year 3

Algorithms and Data Structures
Advanced Information Technology
Project
Electives

Human-Computer Interaction

Year 1

Introduction to Web Design
Introduction to Software Engineering I
Introduction to Information Systems
Discrete Mathematics
3D and Interactive Media
Studio I - Introduction to Design
Electives

Year 2

Algorithms & Data Structures
Introduction to Computer Systems
Programming in the Large
Human-Computer Interaction
Network and Operating Systems
Principles
Software Engineering Studio
Relational Database Systems
Elective

Year 3

Advanced Information Technology
Project
Social and Mobile Computing
Web Information Systems
Studio III – Information Environments
Electives

Software Information Systems Major

Year 1

Introduction to Web Design
Introduction to Software Engineering I
Introduction to Information Systems
Discrete Mathematics
Introduction to Computer Systems
Electives

Year 2

Programming in the Large
Relational Database Systems
Software Engineering Studio
Human-Computer Interaction
Electives

Year 3

Algorithms and Data Structures
Advanced Information Technology
Project
Selection including:
Advanced Database Systems
Web Information Systems
Service-Oriented Architectures
Electives

Computer Systems and Networks Major

Year 1

Introduction to Web Design
Introduction to Software Engineering I
Introduction to Information Systems
Discrete Mathematics
Introduction to Computer Systems
Electives

Year 2

Programming in the Large
Network and Operating Systems
Principles
Software Engineering Studio
Human-Computer Interaction
Electives

Year 3

Algorithms and Data Structures
Advanced Information Technology
Project
Operating Systems Architecture
Computer Networks I
Information Security
Electives

Enterprise Information Systems Double Major

As per the Software Information Systems major, plus five of the following courses:

Year 1

Accounting and Decision Making
Business Law
Introduction to Management

Year 2

Fundamentals of Cost Accounting
Foundations of Electronic Commerce
Electronic Commerce Systems
Development
Data and Information Management

Year 3

Business Information Systems
Economics of Information and
Communications Technology
Systems Analysis and Design
Managing the Virtual Organisation
Managing Information Systems and
Services
Technology and Innovation Management

iPhone app helps students navigate to success

UQ students Aaron McDowall and Kim Hunter used their Bachelor of Information Technology assignment to launch their careers. Their successful iPhone navigational application UQnav is now helping UQ staff and students find their way around campus.

"We developed the UQnav application as part of the assessment for the course *Special Topics in Computer Science*. We realised that there was a real need, particularly amongst new students, for a convenient and portable way of checking where to go, so we started working on a map-based application.

"We were able to sell the application to UQ and were even employed by the University for several months to tweak the app in time for an Orientation Week launch.

"The opportunity to work on a project from pitch to launch has been invaluable. We gained hands-on practical experience and a taste of what professional developers do.

"Even though we are still finishing our Bachelor of Information Technology degrees, we have already received job offers. The fact that we have a tangible product to show has definitely helped us launch our careers."

To download UQnav visit www.uq.edu.au/uqnav



MULTIMEDIA DESIGN

BACHELOR OF MULTIMEDIA DESIGN

Duration 3 years full-time. Part-time equivalent available to Australian residents and citizens

Location St Lucia

Delivery mode Internal

Entry requirements Qld Year 12 or equivalent; English.
Recommended: Mathematics A or B

QTAC code 751201

2011 entry score OP 12; Rank 76; ARAR 73.40; IB 26

Honours Available as an extra year of study

Students of the studio-based Bachelor of Multimedia Design use the latest technology to create animations, special effects, 3D models, games and much more.

What will I study?

The Bachelor of Multimedia Design is a studio-based program providing students with the knowledge and skills to become the designers, architects and implementers of highly sophisticated multimedia experiences. The major focus of the program is on the integration of theory and technology, and their practical application in design projects. Areas included in Multimedia Design are graphic design, digital video production, 3D modelling, web design, social and mobile computing, and human-computer interaction.

An important feature of the program is its focus on teamwork and team projects, undertaken in a studio environment. During the program, students build a portfolio of many different projects involving individual and collaborative work, creating a variety of physical and digital-based media.

Our graduates are multi-skilled people with a broad understanding of the integrated processes involved within the production of multimedia systems. Demand for this high level of expertise is increasing worldwide.

Where will I work?

Multimedia designers are in demand within the education, arts and commercial industries which want to engage audiences. Whether it is games, film, television or the Internet, multimedia designers are at the forefront of designing the player, audience and user experience.

Are there scholarships?

A wide range of scholarships is available to students of the Bachelor of Multimedia Design. Scholarship opportunities from UQ, the Faculty of Engineering, Architecture & Information Technology, and the School of Information Technology and Electrical Engineering are listed on page 30.





As part of the Multimedia Design course Studio II, students developed interactive systems for the urban environment that would encourage and promote greater physical activity in the general public. Left: A group of Bachelor of Multimedia Design students developed a 'Multi-Location Dancing Game' where two dance stations located at different locations are linked by video feeds so teams of dancers can communicate and compete with each other; Above: Students Justin Marrington, Priscila Otero and Jed Petralia developed a smartphone application which harnessed GPS to lead the user on a mystery tour.

What are the areas of study?

Courses cover four main streams of expertise:

- Design of Digital Media;
- Technology Skills and Digital Tools;
- Interaction Design; and
- Elective stream for specialisation (student's own choice of area of interest).

For suggested areas of focus for study, see the recommended study plans on page 18.

These areas of study are explored through traditional courses as well as hands-on project experience in studio courses.

Design of Digital Media

Design is about ideas. It encompasses how to establish the validity of ideas and how to critically evaluate and refine them. Courses in this stream cover the essential design skills of seeing, imagining and communicating, which are then developed through the execution of hands-on design projects in a studio-based learning environment. Areas covered include visual thinking, user-centred thinking, creative design methods, theories of digital media, aesthetics, functionality and form.

You will gain experience in problem-solving strategies, rapid visualisation techniques and construction of physical prototypes as artefacts exploring design.

Technology Skills and Digital Tools

Through this program, you will gain a sound set of fundamental and advanced skills in a variety of multimedia and information technologies including 3D modelling, animation, web design,

interaction design, video and audio production, information systems and software engineering. You will learn to use a broad range of software and design tools that will enable you to understand and apply the fundamentals of contemporary industry packages, and quickly adapt to new developments. You will be able to apply your skills to challenging and relevant projects.

Interaction Design

Interaction Design is about the people you are designing for, and the experience you want them to have with the products you design. Courses in this stream cover fundamental aspects of understanding how people interact with technology, as well as how they interact with each other through technology. You will learn about the latest methods used in research and industry for studying people in context, and how to improve your designs of screen-based, physical, social and mobile technologies.

You will learn and apply qualitative and creative user-research methods in real world settings, and evaluate designs in-situ.

Elective Stream

Your selection of other courses offered either by the School of Information Technology and Electrical Engineering, or other degree programs on campus, including Business or Media Studies, allows you to integrate your own unique interests into your studies.

We provide recommendations on elective choices for different areas of specialisations.

Suggested study plans for Film & Television, Web Design, Advertising & Marketing, Games Design and e-Learning are provided on the following pages, and there are more available on the UQ ICT website (www.uq.edu.au/ict).

The e-Learning specialisation can be complemented with an extra year of study of the Graduate Diploma in Education. This optional one-year teacher preparation program is designed for students who already hold a tertiary degree. The program combines practical learning with the latest research into effective teaching methods. The e-Learning focus opens up careers in Middle Years or Secondary schooling as well as deepening knowledge for e-Learning in corporate settings.

Studio

Studio is a project-based, collaborative work environment that includes workshops, guest lectures, field trips, experiential exercises and self-directed learning. You work in groups, explore ideas, and learn to critique and to be critiqued. Studio is where you build your ideas by applying what you study in other courses. It is here that you gain three years of valuable hands-on experience.

UQ ICT students value the high level of interaction with experienced staff in their Studio courses.

More information

www.uq.edu.au/ict

Phone +61 7 3365 2097

Email enquiries@itee.uq.edu.au

MULTIMEDIA DESIGN CONT.

STUDY PLANS

What is my study plan?

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More information

www.uq.edu.au/study

Email enquiries@itee.uq.edu.au

Film & Television focus

Year 1

Introduction to Media Studies
Introduction to Film & Television Studies

Year 2

New Media: Ideas & Uses
Television & Popular Culture
Film Movements & Genres

Year 3

Adaptation: Studies in Transmission
Between Cultures and Forms
From Buddha to Bruce Lee: Asian
Visual Cultures
Critical Concepts in Film & Television

Advertising & Marketing focus

Year 1

Foundations of Corporate
Communication
Introduction to Marketing

Year 2

Advertising as Communication or Mass
Media & Society
Introduction to Visual Communication
New Media in Art, Video, Computer,
Internet

Year 3

Product & Brand Management
Advertising as Communication or Mass
Media & Society
Advertising Management

Generic Study Plan

Year 1

Introduction to Web Design
3D and Interactive Media
Introduction to Software Engineering I
Studio I – Introduction to Design
Discrete Mathematics
Introduction to Information Systems
Electives

Year 2

Digital Video Production
Human-Computer Interaction
Graphic Design
Games Design
Programming in the Large
Electives

Year 3

Social and Mobile Computing
Studio II – Physical Computing
(double units)
Studio III – Virtual Environments
(double units)
Electives

Web Design focus

Year 1

Fundamentals of Writing
Introduction to Computer Systems

Year 2

Foundations of Electronic Commerce
Electronic Commerce Systems
Development
Introduction to Visual Communication

Year 3

Web Information Systems
Relational Database Systems
New Media: Ideas & Uses

Games Design focus

Year 1

Fundamentals of Writing
Introduction to Media Studies

Year 2

Drama: Space, Body & Genre
Dramaturgy & Playwriting
Creative Writing: Screenwriting

Year 3

Television & Popular Culture
New Media: Ideas & Uses
Creative Writing: Narrative

Visual Arts focus

Year 1

Art in the Modern World
Introduction to Visual Communication

Year 2

Looking at Art
Introduction to Media Studies
Studies in Photography

Year 3

Film Movements & Genres
Television & Popular Culture
New Media: Ideas & Uses

e-Learning focus

Year 1

Foundations of Corporate
Communications
Introduction to Education

Year 2

Introduction to Visual Communication
New Media in Art, Video, Computer,
Internet
Fundamentals of Writing

Year 3

Writing & Editing for the Professions
Media & Technologies in Education
Elective

Year 4 (optional)

Graduate Diploma in Education

Ready for a high-flying career in advertising

Freya Harvey combined her passions in multimedia design and advertising through her study and industry experiences in the Bachelor of Multimedia Design at UQ.

Why study Multimedia Design at UQ?

I chose UQ for its broad range of courses and the flexibility to choose the direction I wanted my degree to take. During the Bachelor of Multimedia Design I acquired skills in many areas, such as physical computing and visual communication, as well as web and graphic design. Having the choice of so many electives allowed me to tailor my degree to my specific interest in advertising.

What were the highlights of your time at UQ?

I loved the experience of working with a real-world client during our final studio project where I developed an integrated advertising campaign for a Brisbane CBD bar including print, social networking, outdoor advertising, flyers, postcards, corporate advertising and new menus. I also gained practical work experience with a small production company, as well as well known advertising agency Publicis Mojo.

Your advice for future students?

Make use of the many advantages that UQ offers! Tailor your degree to your areas of interest, take advantage of work experience opportunities available, and get involved in networking. UQ really does have a rich and vibrant network of students, staff, lecturers and academics that are always willing to help you achieve your career aspirations.



ICT & ENGINEERING

BACHELOR OF ENGINEERING

Duration 4 years full-time. Part-time equivalent available to Australian residents and citizens

Location St Lucia

Delivery mode Internal

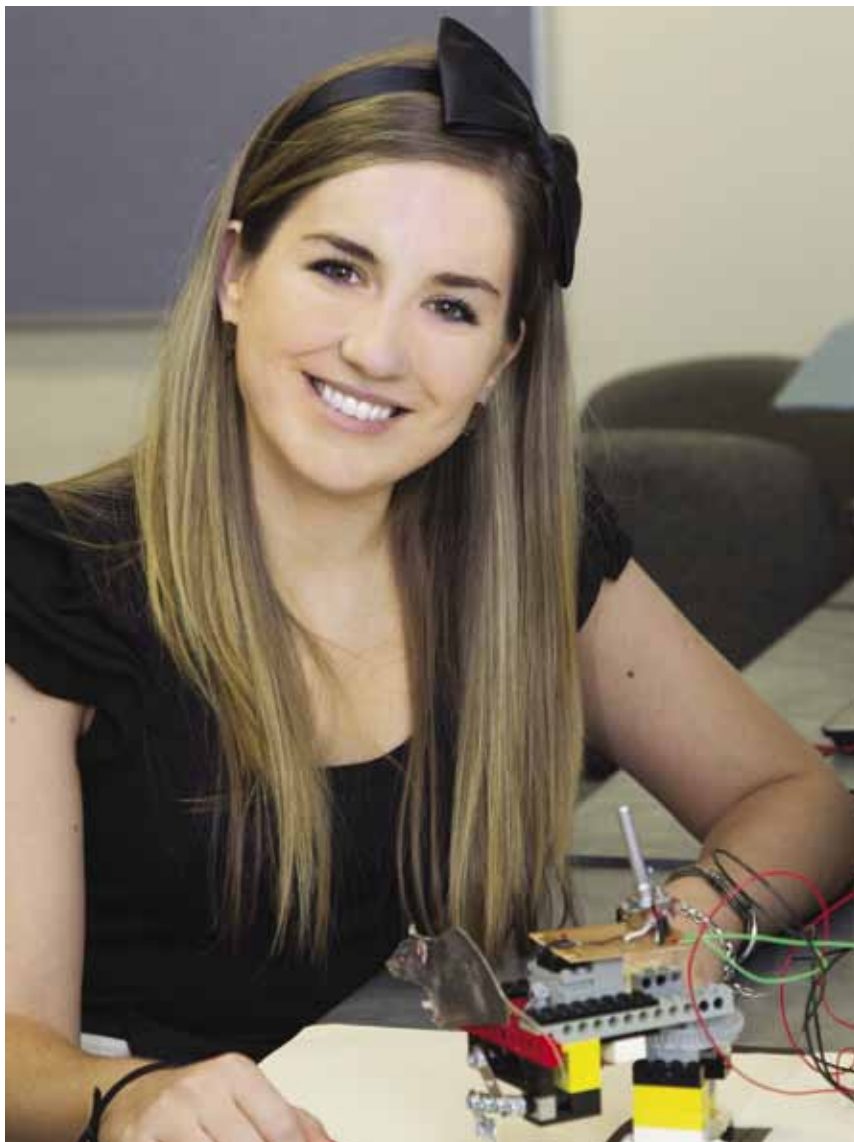
Entry requirements Qld Year 12 or equivalent; English; Mathematics B; Chemistry or Physics (both recommended)

QTAC code 717001

2011 entry score OP6; Rank 90; ATAR 88.70; IB 32

Honours Available as part of the standard program. Students are awarded honours based on their overall grade point average in engineering courses

ICT majors are offered through the Bachelor of Engineering in the areas of Software Engineering, Electrical and Computer Engineering, Software Systems and Aerospace, and Mechatronic Engineering.



Why study engineering as an ICT option?

Students pursuing in-depth studies in the traditional areas of software and hardware will find the four-year Bachelor of Engineering degree provides a respected qualification for entry into either the ICT or engineering professions.

What will I study?

UQ's Bachelor of Engineering program offers the largest choice of engineering specialisations in Queensland. ICT-related majors are listed below.

Software Engineering

Software engineering is the systematic approach to the development, operation, maintenance and retirement of software; the controlling element of computer-based systems. You will study the complexities associated with large-scale, high-quality software: size and complexity, cooperation between developers, clients and users, and evolution of software over time to maintain its value. You will learn how to use the principles of computer science, engineering, design, management, psychology, sociology and other disciplines to design and manage large software systems.

Electrical and Computer Engineering

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 maintained. The Electrical and Computer Engineering major prepares you to work in these innovative environments, designing cutting-edge products. You will develop skills in electrical engineering, computer engineering and information technology, in conjunction with professional skills. You will gain hands-on experience with high technology equipment in team and individual projects – an approach valued by employers.



Left: Bachelor of Engineering (Mechatronics) student Jessica Wrigley with her "Robot Rat Leg" project;
 Above: Bachelor of Engineering (Electrical) student Jonathan Aw developed a "Human-Computer Interface for Digital Canvases"

Software Systems and Aerospace

The Software Systems and Aerospace major combines a full single major in Software Engineering with additional specialist study and project work in the aerospace and aviation industry. In the aerospace industry, systems such as aircrafts are a mixture of electronics, software and mechanical devices that need to operate at exceptional levels of safety and reliability. This program includes a strong component of systems engineering, which allows designers to describe and understand such complex systems.

Mechatronic Engineering

Mechatronic engineers integrate precision mechanical engineering with electronics, computer systems, and advanced controls, to design and construct products and processes. This major provides a broad-based education in the basic principles of electrical, mechanical and computer engineering. You can choose from a broad range of electives covering areas such as engineering analysis and design; engineering mechanics; dynamics and automatic control; signals and communication; electrical hardware and computer software. You also have the opportunity to undertake a minor in biomedical engineering.

Where will I work?

Our graduates find employment in areas such as telecommunications; games development; security and surveillance; aerospace and defence; robotics and intelligent systems; electrical power generation, transmission and distribution; and biomedical engineering.

What about industry experience?

UQ Engineering students complete at least 60 days of industry practice as part of their degree. Qualifying students can also do up to a semester full-time in a professional placement. The work-based learning program CEED (Cooperative Education for Enterprise Development) Placement Program offers UQ Engineering students the opportunity to apply theoretical knowledge to real life projects.

Find out more about our industry experience programs on page 7.

Who recognises my qualification?

The Bachelor of Engineering program is accredited by Engineers Australia and our students and graduates are entitled to membership of this organisation. Because of this accreditation, the degree is automatically recognised Australia-wide and by signatory nations to the Washington Accord, namely Canada, Chinese Taipei, Hong Kong, Ireland, Japan, Korea, New Zealand, Singapore, South Africa, the UK and USA. Graduates and students are also eligible for membership of the Association of Professional Engineers, Scientists and Managers Australia (APESMA). This organisation provides practical information, representation and advice on employment and career advancement issues.

The Australian Computer Society (ACS) also offers membership to Bachelor of Engineering computing graduates. ACS is the recognised association for ICT professionals.

Is there alternative entry?

You can enrol in the Bachelor of Information Technology and undertake courses that are also available in the Bachelor of Engineering (Software Engineering) program. By choosing your first- year electives carefully, you may satisfy the entry prerequisites for the Bachelor of Engineering (BE) and, subject to satisfactory grades, proceed to the second year of the BE (Software Engineering).

Are there scholarships?

A wide range of scholarships is available to students of the Bachelor of Engineering. Scholarship opportunities from UQ, the Faculty of Engineering, Architecture & Information Technology, and the School of Information Technology and Electrical Engineering are listed on page 30.

More information

A full list of courses is available on the prospective students website at www.uq.edu.au/study

For further information on Engineering at UQ:

www.engineering.uq.edu.au

Email admin@eait.uq.edu.au

Phone +61 7 3365 4777

ICT & ENGINEERING CONT.

STUDY PLANS

What is my study plan?

The UQ Bachelor of Engineering program offers 17 specialised fields of study.

On this page you will find the ICT-related majors of the Bachelor of Engineering. The study plans on this page are indicative only and do not include all courses or all areas of interest. For an outline of all the majors available as part of the Bachelor of Engineering, please visit www.engineering.uq.edu.au.

Academic advisors are available to assist you with your choice of specialisation.

Flexible Study Plans

If you enrol in the Bachelor of Engineering and decide that you would prefer to study Information Technology, you have some flexibility to change. First year IT courses are also available in the Bachelor of Engineering (Software Engineering) program. By choosing additional first year courses needed for the BInfTech, you may satisfy the entry prerequisites for Information Technology and, subject to satisfactory grades, proceed to the second year of the Bachelor of Information Technology.

More information

www.engineering.uq.edu.au
Email admin@eait.uq.edu.au

Mechatronic Engineering

Year 1

Introduction to Electrical Systems
Introduction to Engineering Design
Physics and Engineering of Materials
Calculus and Linear Algebra I
Introduction to Computer Systems
Engineering: Problem Solving and Modelling
Applied Mechanics
Multivariate Calculus and Ordinary Differential Equations
Introduction to Software Engineering I

Year 2

Structures and Materials
Mechatronic System Design Project I
Circuits, Signals and Systems
Analysis of Ordinary Differential Equations
Dynamics and Orbital Mechanics
Calculus and Linear Algebra II
Electives

Year 3

Introduction to Control Systems
Mechatronic System Design Project II
Advanced Control and Robotics
Electives

Year 4

Thesis/Design Project
Professional Development
Professional Engineering Project

Software Systems and Aerospace

Year 1

Introduction to Electrical Systems
Introduction to Software Engineering I
Introduction to Engineering Design
Engineering: Problem Solving and Modelling
Applied Mechanics
Calculus and Linear Algebra I
Introduction to Computer Systems
Multivariate Calculus and Ordinary Differential Equations
Discrete Mathematics

Year 2

Programming in the Large
Network and Operating System Principles
Team Project I
Introduction to Information Systems
Calculus and Linear Algebra II
Human-Computer Interaction
Software Engineering Studio
Electives

Year 3

The Software Process
Flight Mechanics and Avionics
Programming for Engineering Systems
Algorithms and Data Structures
Team Project II
Electives

Year 4

Thesis Project
Introduction to Systems Engineering
Systems Safety Engineering
Electives

Software Engineering

Year 1

Introduction to Software Engineering I
Programming in the Large
Introduction to Computer Systems
Introduction to Engineering Design
Introduction to Electrical Systems
Engineering: Problem Solving and Modelling
Calculus and Linear Algebra I
Multivariate Calculus and Ordinary Differential Equations
Discrete Mathematics

Year 2

Network and Operating System Principles
Human-Computer Interaction
Software Engineering Studio
Team Project I
Introduction to Information Systems
Calculus and Linear Algebra II
Electives

Year 3

The Software Process
Software Engineering Electives
Team Project II
Algorithms and Data Structures
Electives

Year 4

Thesis Project
Software Engineering Electives
Electives

Electrical and Computer Engineering

Year 1

Introduction to Electrical Systems
Introduction to Software Engineering
Engineering Design
Engineering Modelling and Problem Solving
Electromechanics and Modern Physics
Calculus and Linear Algebra I
Multivariate Calculus & Ordinary Differential Equations

Year 2

Programming in the Large
Introduction to Computer Systems
Electromechanics and Electronics
Calculus and Linear Algebra II
Network and Operating System Principles
Circuits, Signals & Systems
Team Project I
Analysis of Ordinary Differential Equations
Probability Models for Engineering and Science

Year 3

Embedded Systems Design & Interfacing
Signals, Systems and Control
Electronic Circuits
Digital System Design
Fundamentals of Electromagnetic Fields and Waves
Electives

Year 4

Thesis Project
Advanced Embedded Systems
Team Project II
Professional Practice
Electives

Designing the next-generation programming framework

Chris Adams and Alan Alpert studied Engineering with a focus on ICT at UQ. They are now developing the latest technology for Nokia as part of their R&D team based in Brisbane.

Chris Adams, Software Engineer with Nokia's Qt Development Frameworks, UQ Bachelor of Engineering (Computer Systems) Graduate

What were the highlights of your time at UQ?

I especially enjoyed the Engineering Team Project courses which allowed us to apply the skills we had learned in our courses to solve problems that the industry is currently facing. The environment was very similar to that found in industry: given a problem and some requirements, you and your team must design a solution that fulfils the requirements, on-time and on-budget. Other highlights included the guest lectures from engineers working at companies like Sun Microsystems, Google and IBM. It was great to see the things we were learning being applied in industry to change the world.

Your advice for future students?

My advice to future ICT students would be to learn assembly, C, an object-oriented language, and a scripting language. Join or start a project that uses version control (git or svn) and learn how to be productive in a distributed development paradigm. Most of all: have fun!

Alan Alpert, Senior Engineer with Nokia's Qt Development Frameworks, UQ Bachelor of Engineering (Software Engineering) Graduate

What were the highlights of your time at UQ?

The final year thesis project was a highlight, as I was able to direct my own research into a topic of interest, with the potential of improving Nokia's cross-platform application framework Qt. I had been working on Qt since my first year of university part-time and after combining study and work during my final year, this transitioned into full-time employment at the end of my degree. An exchange semester at the University of Oslo was also memorable and gave me the opportunity to experience a different country, climate and culture.

Your advice for future students?

Take part in some of the competitions that are offered by industry. Programming competitions such as TopCoder or the ACM ICPC are great learning and practice experiences at algorithmic design, and open source projects are good experiences for software project management.



ICT & SCIENCE

BACHELOR OF SCIENCE

Duration 3 years full-time
Part-time equivalent available to
Australian residents and citizens only

Location St Lucia

Delivery mode Internal

Entry requirements Qld Year 12 or equivalent;
English; Mathematics B; Chemistry or Physics

QTAC code 731001

2011 entry score OP10; Rank 81; ATAR
78.85; IB 28

Honours Available as an extra year of study

The Bachelor of Science offers ICT majors in the areas of Bioinformatics, Computational Science and Computer Science.

Why study Science as an ICT option?

Computer Science is the basis of many of today's ICT study options and is becoming a critical dimension in science education. Students who like scientific enquiry can apply the skills from a Computer Science major to their studies in other fields of science. Other fascinating study areas include Bioinformatics and Computational Science.

What will I study?

The Bachelor of Science is a flexible program designed to accommodate a wide variety of career aspirations. When combined with core ICT courses, the range of courses offered means you can tailor a program to your individual needs and interests and select course combinations from both science and information technology disciplines.

What if this isn't enough?

Students enrolling in the UQ Science degree may apply for the Advanced Study Program in Science (ASPinS).

The ASPinS provides opportunities for high-achieving first year students to enhance their university experiences through an enriched program of study. The program includes individual mentoring by a scientist, access to research laboratories in first year and exposure to creative thinkers across all disciplines.

Where will I work?

Our graduates find employment in areas such as:

- genome research
- molecular science
- microbial science
- bioinformatics
- computer science
- consulting
- games development
- quantum computing research, and
- computational physics.

Who recognises my qualification?

On graduation, our students are entitled to membership of relevant industry associations, including associate-level accreditation for the Bachelor of Science computing program from the Australian Computer Society.

What are the areas of study?

The Bachelor of Science program offers ICT-related majors in the following areas.

Bioinformatics for a career in:

- bioinformatics
- computational biology
- microbiology
- biochemistry
- chemistry
- genetics, or
- biotechnology.

Computational Science for a career in:

- genome research
- molecular science
- microbial science
- bioinformatics
- biology
- mathematics

- numerical computing
- visualisation
- quantum computing, or
- computational physics.

Computer Science for a career in a science-based application of:

- information systems
- programming
- operating systems
- numerical computing
- software engineering
- artificial intelligence, or
- data management systems.

More information

A full list of courses is available on the prospective students website at www.uq.edu.au/study

For further information on Science at UQ:
www.uq.edu.au/science
Email science.enquiries@uq.edu.au
Phone +61 7 3365 1888



ICT & ARTS

BACHELOR OF ARTS

Duration 3 years full-time
Part-time equivalent available to
Australian residents and citizens only

Location St Lucia

Delivery mode Internal

Entry requirements Qld Year 12 or equivalent;
English.

QTAC code 707001

2011 entry score OP 10; Rank 81; ATAR
78.85; IB 28

Honours Available as an extra year of study

The Bachelor of Arts Information Technology major connects the arts with computer science and technology.

Why study ICT in Arts?

Computing is an important tool in just about every discipline, from human movement studies to psychology to communication. To make best use of the tools available, and especially to see the possibilities of new tools, you need to understand what computers do and how to program them. In this major, you will learn how to think logically about a problem and its solution, and you will learn how to develop tools for humans to make use of.

What will I study?

As a Bachelor of Arts student you can choose from nearly 50 majors (areas of study) and design the degree to suit your career aspirations. The flexibility of an Arts degree allows you to combine majors as diverse as Information Technology and languages, or writing and music – there are many combinations. Dual programs, such as adding a concurrent diploma or dual degree, are also a popular option.

Choosing an Information Technology major in the Bachelor of Arts allows you to combine this area with studies in the humanities or social sciences. You will learn aspects of computer design and usage, including information systems, practical programming skills, computer networking, and the human-computer interface.

Where will I work?

By majoring in ICT through a Bachelor of Arts, you could develop skills as a games developer, or combine a language with business process management skills and work overseas. If you are considering a career as a teacher, ICT can be one of your teaching subjects. You could also work in the emerging field of e-humanities – the possibilities are endless.

Just some of the careers in which Bachelor of Arts (Information Technology) graduates find employment are:

- developers and programmers of interactive entertainment, toys and computer games
- developers of entertainment media
- ergonomics consultants
- expert systems analysts

- innovation experts
- online communication specialists
- teachers
- researchers, and
- Web designers.

Who recognises my qualification?

On graduation, our students are entitled to membership of relevant industry associations, including associate-level accreditation for the Bachelor of Arts (Information Technology) program from the Australian Computer Society.

Can I do more than one degree?

The Bachelor of Arts may be taken as a dual degree with the majority of bachelor degree programs offered at the University, including a Bachelor of Education. You can also undertake a Diploma of Music, International Studies or Global Issues.

For further information on our dual programs, see page 26, or for a comprehensive list, please visit www.uq.edu.au/study

What are the areas of study?

The Bachelor of Arts program offers students numerous majors. You can study the Bachelor of Arts (Information Technology) for a career in:

- information systems
- human-computer interaction
- software development
- psychology
- journalism
- communications, or
- education.

Electives can include:

- languages,
- media studies,
- human-computer interaction, or
- artificial intelligence.

More information

A full list of courses is available on the prospective students website at www.uq.edu.au/study

For further information on Arts at UQ:
www.arts.uq.edu.au

Refer to the Arts Prospectus available on the website or from the Faculty office:
Phone +61 7 3365 1333
Email arts@uq.edu.au



DUAL PROGRAMS

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

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

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

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

Business Management/Information Technology (BBusMan/BlInfTech)

Program duration 4 years

QTAC Code 710401

By combining these two areas of study, you will develop expertise in a niche field that offers a wide range of employment options and excellent opportunities for overseas employment.

Commerce/Information Technology (BCom/BlInfTech)

Program duration 4 years

QTAC Code 711621

By combining these two areas of study in a dual degree, you will get a focused background in commerce, along with specific practical and theoretical understandings relevant to your chosen field in ICT.

Engineering/Information Technology (BE/BlInfTech)

Program duration 5.5 years

QTAC Code 717701

This dual program is ideal for students wishing to combine the theory and practice of modern computing with another field in engineering. This program is available with Engineering single majors in Chemical, Civil, Electrical, Materials, Mechanical or Mining Engineering.

Information Technology/Arts (BlInfTech/BA)

Program duration 4 years

QTAC Code 733201

This program allows combinations of the humanities and ICT. It is an excellent plan if you want to combine languages, education, communication or other areas of interest with an ICT base.

Information Technology/Science (BlInfTech/BSc)

Program duration 4 years

QTAC Code 733301

ICT and science are complementary areas of study, especially in areas such as bioinformatics, computational science, health sciences, mathematics or psychology. This dual degree provides a stronger science base for ICT students than is possible by undertaking a single degree.



Bachelor of Engineering / Bachelor of Information Technology student Igor Dimitrijevic developed a motor failure survival subsystem as his final year project

UNDERGRADUATE DIPLOMAS

Once you are enrolled at UQ, you may decide to undertake a Diploma in either Music, Languages, or Global Studies at the same time as you complete your bachelor degree.

At UQ, you can now study one of three undergraduate diplomas concurrently with your bachelor degree. You may choose to undertake this over an accelerated period, or spread the load across the duration of your degree.

Music

If you love music, this is the diploma for you — no matter what your main academic interest. You can choose between Music Studies and Ensemble in which you can practise performance skills in an orchestral setting, as well as develop other musical techniques and knowledge; or Popular Music and Music Technology which focuses on the technologies of performance, recording, and distribution of popular music's different genres.

Languages

If you are keen to learn a new language, whether for personal interest or to enhance your career prospects in the global economy, you can study the Diploma in Languages. This diploma will suit you if you studied a language at high school and want to maintain your proficiency. But it will also suit you if you have never studied a foreign language: you don't need any prior experience. The diploma is available in French, German, Indonesian, Japanese, Korean, Russian and Spanish.

Global Issues

The Diploma in Global Issues will appeal to you if you wish to pursue a career in an area where having a global perspective on the environment, economics, politics, and social change will be of advantage. In this program, you will learn how individuals, societies and countries are all interconnected. One exciting feature of this program is the opportunity to make the most of UQ's extensive international connections through study at one of our partner universities.

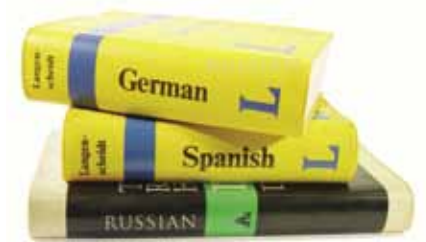
How to enrol in a diploma

If you are interested in the Diploma in Music or the Diploma in Languages, you can apply for these programs directly to UQ once you have been offered a place at UQ through QTAC. If the Graduate Diploma in Global Issues is your area of interest, you will need to complete one year (16 units) of undergraduate studies before applying.

To find out more about undergraduate diplomas, please contact the UQ Admissions Team.

UQ Admissions

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



UQ student Kieren Brown



ADMISSION INFORMATION

Admission requirements

To gain admission to undergraduate programs, you must satisfy prerequisites and have a sufficient entry score.

Alternative entry pathways are available if you do not have a sufficient entry score or are missing prerequisites. See *Alternative entry* or *Improving an entry score (upgrading)* in the next column.

See *What do we mean?* on page 47 for definitions of Australian (domestic) and international applicants.

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, external senior studies, or tertiary studies. Some programs have additional prerequisites, e.g., the Undergraduate Medicine and Health Sciences Admission Test (UMAT).

Entry scores

Eligible applicants are selected for admission to a program in order of merit, based on entry scores. Those with the highest entry score are selected first, and so on until the program quota is filled.

Entry scores include Overall Positions (OP) and ranks. Current Queensland Year 12 students receive an OP — expressed in a scale extending from 1 to 25.

All other applicants are allocated a rank — expressed in a scale extending from 99.90 to 1. This common ranking scale allows different qualifications to be compared, for example:

- interstate Year 12 students are allocated a Nationally Agreed Common Index called the Australian Tertiary Admissions Rank (ATAR), which is used to calculate a rank
- Australian students who complete the International Baccalaureate (IB) are allocated a Nationally Agreed Common Index called the Combined Rank by QTAC, which is used to calculate a rank
- non-school leavers (including previous Queensland Year 12 students who qualified for an OP) and OP-ineligible Year 12 school leavers are allocated a rank when they apply through QTAC based on previous secondary, tertiary, bridging and preparatory studies, and/or work experience.

The minimum OP or rank required for quota places varies from year to year and is determined once quota applications have been processed and places allocated.

English language requirements

If you are from a non-English speaking background, you must provide evidence of English proficiency. This may be achieved through a pass in Queensland Year 12 English (or interstate equivalent) or by other means, as outlined in the Entry Options booklet available from UQ Admissions.

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 on these alternatives.

Improving an entry score (upgrading)

You can try to improve your entry score and/or meet program prerequisites by accepting an offer in a lower preference program. You can then be allocated a new entry rank that, depending on factors such as academic performance, and your history of previous studies, may be higher than your previous rank.

Special entry programs

If you are of Australian Aboriginal and/or Torres Strait Islander descent, or have suffered financial hardship or severe disadvantage beyond your control that has affected previously satisfactory results, 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. Contact UQ Admissions for more information.

Programs for High School students

UQ's Enhanced Studies Program (ESP) provides high-achieving secondary school students with an opportunity to extend their studies in an area of interest and to 'test drive' university life. Students accepted into the program can study one UQ course (subject) during Semester One of Year 12. ESP students who successfully complete the program will be eligible to receive one bonus point towards their University entrance rank through UQ's Bonus Scheme. In addition, most ESP students who later enrol in a relevant UQ degree also receive credit for their completed course. ESP study also counts towards your Queensland Certificate of Education (QCE).

For more information, visit www.uq.edu.au/guidance/esp

How to apply

You can apply for admission to undergraduate programs at UQ through the Queensland Tertiary Admissions Centre (QTAC).

The *QTAC Guide* provides essential information on the application process and explains the entry requirements for all programs offered through QTAC. Free copies are given to all current Queensland Year 12 students and some interstate schools. You can also buy a copy from newsagents or through QTAC.

For 2012 programs, the deadline for on-time applications is 30 September 2011. Contact QTAC for more information.

Current Year 12 students

- lodge an application online through QTAC's Twelve to Tertiary (TTT) Web application service at www.qtac.edu.au

International students studying Year 12 in Australia

- visit www.uq.edu.au/international/ausyear12 for more information on application procedures and entry requirements

Other prospective students

- lodge an online application using QTAC's *Apply by Web* service at www.qtac.edu.au

Enrolment

Once you have been offered a place in a UQ program, you can formally accept the offer by lodging a response with QTAC. You can then enrol at UQ by using the UQ link from QTAC's Current Applicant online service. The UQ enrolment website (www.uq.edu.au/enrolment) provides information about the enrolment process to help you get started.

QTAC

www.qtac.edu.au
Phone 1300 GO QTAC (1300 467 822)

UQ Admissions

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

International Admissions Section

www.uq.edu.au/international

Queensland Year 12 students

Phone (07) 3346 7376

Interstate Year 12 students

Phone 1800 671 980

MONEY MATTERS

When planning your study experience, consider the following financial options.

Fees and charges

When you study at university, you will have to pay fees for each course in which you enrol. Most undergraduate places at UQ are funded partly by the federal government (Commonwealth-supported) and partly by you, and the amount you pay depends on the band level of your course. National priority courses (Mathematics, Science, Statistics) attract the lowest charges.

You are eligible for Commonwealth-supported (CSP) funding if you are an Australian or New Zealand citizen, or an Australian permanent resident. International students must pay full tuition fees.

At UQ, fees are charged according to the courses you undertake, not the program in which you enrol. Because charges will be levied according to your exact enrolment, it is not possible to publish a fixed annual fee.

Fee Calculator

To help you work out your fees for a semester, UQ has developed an online Fee Calculator, available on the Courses and Programs website.

The Fee Calculator shows individual course fees and allows you to add them to a list to calculate the overall fee for your enrolment. Before you enrol, Academic Advisors can help you develop a study plan.

Fees information
www.uq.edu.au/study

Fee Calculator
www.uq.edu.au/study (see UQ Toolkit)

Living costs

As a university student, you will also need to consider other costs of living, especially if you are living away from home for the first time. These include accommodation, books and study requirements, transport, and parking. Fortunately, a wide range of assistance is available.

UQU, the Student Union, has a secondhand bookshop, and provides many low-cost entertainment activities. UQ's Student Services offers help with accommodation and finding a job. And the federal government provides financial support for low-income earners; as well as fee repayment options for students.

University of Queensland Union
www.uqu.uq.edu.au

UQ Student Services
www.uq.edu.au/student-services

Financial assistance

Centrelink student services

The Federal Government's Centrelink 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:

- an interest-free advance loan for students, where you are paid part of your allowance as a lump-sum advance
- the Pensioner Education Supplement (PES), which is a payment to certain categories of pensioners commencing study
- the Health Care Card, which enables Commonwealth health concessions, such as low-cost pharmaceuticals, under the Pharmaceutical Benefits Scheme (PBS).

Centrelink
www.centrelink.gov.au

Youth and Student Services
Phone 13 2490

Abstudy
Phone 13 2317

HECS-HELP

If you are a domestic student in a Commonwealth-supported place, you are eligible to receive HECS-HELP. HECS-HELP

allows Australian citizens or holders of an Australian permanent resident humanitarian visa to defer all or part of their student contribution amounts for repayment when they meet specific income thresholds. This means that you do not start repaying your HECS debt until you earn a certain income level (currently \$44,912 per tax year), when it is then taken out of your pay as additional tax.

If you pay "up-front", i.e. at the time of enrolment, you will receive a 20% discount on your fees. Please note that New Zealand citizens or Australian permanent residents without a humanitarian visa must pay up-front without the discount.

FEE-HELP

FEE-HELP is a loan scheme available to Australian citizens or holders of an Australian permanent resident humanitarian visa to help meet tuition fee liability for courses that are not Commonwealth-supported. FEE-HELP can cover all or part of your tuition fees, up to a lifetime limit of \$108,029 for Medicine, Dentistry and Veterinary Science, and \$86,422 for all other programs (indexed annually).

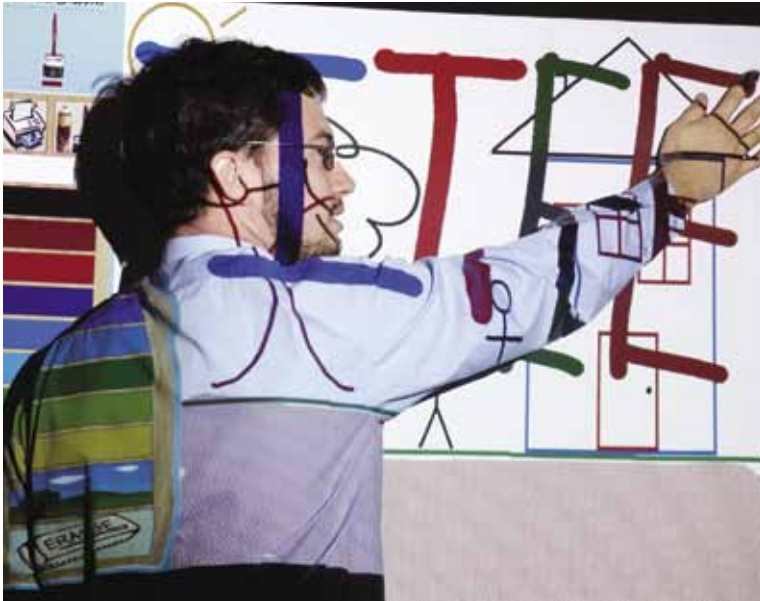
HECS-HELP/FEE-HELP information
www.goingtouni.gov.au

Scholarships

See page 30.



UQ students Purity Chelangat Goj (front, from Kenya) and Hong Yu Emmanuel Chan (right, from Singapore) outside the Great Court, UQ St Lucia



SCHOLARSHIPS

Study at university is much easier when you don't have to worry about money. Find out what's on offer before you enrol at www.uq.edu.au/scholarships

UQ awards hundreds of scholarships worth millions of dollars each year to students.

Scholarships at UQ are awarded for academic excellence, for research purposes, to help you if you have financial difficulty, to assist elite athletes, and to help with the costs of overseas study. They are made possible with the generous support of our donors, external agencies and industry providers.

Academic scholarships

UQ wants to encourage and attract high-achieving school leavers who also demonstrate the potential to be future leaders, and so has a generous academic scholarship program in place. You will be selected for one of the three scholarships — UQ Vice-Chancellor's, UQ Excellence, UQ Merit — based on your academic achievement in Year 12, your demonstrated leadership potential, and other achievements.

Equity scholarships

UQ has a strong commitment to providing support for you if you are financially disadvantaged and offers a range of equity scholarships to Commonwealth-supported students. These include the UQ-Link Access Scholarships and Indigenous Access Scholarships (IAS).

For more information about these scholarships, eligibility criteria, terms and conditions, and the application process, please visit the UQ Scholarships website and click on the *Scholarships for Australian Undergraduate Students* button and select the *Equity* link.

Scholarships for Indigenous students

As an Indigenous student you have many scholarships from which to choose, including the Indigenous Access Scholarship (IAS), UQ Economics Scholarship, and the Pearl Duncan Teaching Scholarship. See www.uq.edu.au/atsts/scholarships for full details.

International opportunities

If you complete part of your studies as an exchange student through UQ Abroad, you may be eligible for a UQ Student Exchange Scholarship. Jubilee Scholarships as well as the Australian University Mobility in Asia and the Pacific Program (UMAP) are also available.

Sporting scholarships

If you are a talented sportsperson you may be interested in applying for a UQ Sports Achievement Scholarship or the Clem Jones Sporting Scholarship. Apply online via the UQ Sport website under *High Performance Sport*.

Undergraduate Scholarships and Prizes Office

www.uq.edu.au/scholarships
Email ugscholarships@uq.edu.au
Phone (07) 3365 7113

Scholarships at UQ Ipswich

www.uq.edu.au/ipswich/scholarships-and-prizes

Scholarships at UQ Gatton

www.science.uq.edu.au/scholarships

UQ Admissions

www.uq.edu.au/study/uqlink-entry
Email uq.link@admin.uq.edu.au
Phone (07) 3365 2203

UQ Abroad

www.uq.edu.au/uqabroad/financial-assistance

UQ Sport

www.uqsport.uq.edu.au
Phone (07) 3365 6612

INTERNATIONAL STUDENTS

More than 10,000 international students from over 100 countries currently call UQ home.

You are an International student if you are a:

- Temporary Resident (visa status) of Australia
- Permanent Resident (visa status) of New Zealand, or
- Resident or Citizen of any other country.

Eligibility for UQ study

For admission into undergraduate programs at UQ, you must have:

- completed recognised upper secondary or equivalent Year 12 studies to the required standard
- satisfied individual program requirements (e.g., specific subject prerequisites, auditions or interviews)
- satisfied English language requirements.

If you do not meet these criteria, you might consider taking the foundation year bridging course offered by International Education Services (IES) or English language training offered by the Institute of Continuing and TESOL Education (ICTE).

More information

www.uq.edu.au/international
www.foundationyear.com
www.icte.uq.edu.au

Study Abroad and exchange

If you are an international student currently studying overseas at an accredited university, you can study at UQ for one or two semesters as part of the Study Abroad program. If another university has an exchange agreement with UQ, you can study at UQ as an exchange student for one or two semesters.

More information

www.uq.edu.au/international/exchange
www.uq.edu.au/studyabroad

Expenses

When you apply for a student visa, the Department of Immigration and Citizenship (DIAC) may ask you for evidence that you have sufficient funds to complete your studies. Expenses to be considered include visa and medical (pre-departure) fees, tuition fees (for full degree or study abroad fees), general living expenses (around \$18,000 - \$22,000 a year), return airfares, and Overseas Student Health Cover (OSHC).

More information

www.uq.edu.au/international/fees

Services for international students

International Student Advisors can help you quickly settle into life as a UQ student. These include picking you up at the airport, helping you find temporary accommodation, organising your orientation, and scheduling your academic preparation sessions. They can also answer your questions about health services, family matters, schooling or childcare, social events, and cultural or religious organisations.

More information

www.uq.edu.au/international-guide

Fees and charges

Fee-paying students pay tuition fees based on the courses they undertake, regardless of the program in which they enrol.

Fee information

www.uq.edu.au/international/fees

Fee calculator

www.uq.edu.au/study/feecalculator

2 degrees in 2 years

International students articulating with credit into year 3 of the Bachelor of Information Technology at UQ have the opportunity to complete the undergraduate degree as well as the Master of Computer Science in only two calendar years. Students who successfully complete the requirements for the Bachelor of Information Technology will be eligible to apply for the Master of Computer Science, which can be completed in one calendar year (including studies in the summer semester). Scholarships are available for this program and cover the tuition fees for one semester.

More information:

<http://www.eait.uq.edu.au/international-scholarships>

Applying to UQ

See the *UQ Undergraduate Prospectus for International Students 2012* at www.uq.edu.au/international

Contact details

International Recruitment Manager

Email (online enquiry form)
www.uq.edu.au/international/enquiry
Phone +61 3 8676 7004 (outside Australia)
1800 671 980 (within Australia)



Students Emilita Krisanti Cornain (Indonesia) and Roni Cheriyan (India) in the Biological Sciences Library, UQ St Lucia

OVERSEAS OPPORTUNITIES

Studying in another country is a great way to learn about the world and broaden your horizons. UQ can help with costs and give you credit towards your degree.

The UQ Abroad program offers you the exciting chance to study overseas for up to a year on exchange, while at the same time gaining credit towards your UQ degree.

Having exchange agreements with more than 150 universities in 35 countries — including the US, UK and France — UQ offers a diverse choice and recommends that all students try the experience.

You can also take advantage of the many internship opportunities that allow you to live and work in another country while gaining valuable experience that may possibly help you find future employment.

Why go overseas?

Spending part of your program overseas opens up an exciting array of opportunities you may never have thought possible and is especially beneficial when combined with foreign language skills that you have learnt.

Some benefits of having an overseas study or work-experience include:

Gain academically

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

Personally rewarding

- experience a different culture first-hand
- increase your understanding of the world and gain a global outlook — a quality highly regarded by employers
- make life-long friends from different parts of the world
- learn more about yourself and your capabilities
- study and gain employment overseas.

UQ Abroad

www.uq.edu.au/uqabroad
Phone (07) 3365 9075
Email uqabroad@admin.uq.edu.au

ACADEMIC PROGRAMS

QUICK REFERENCE GUIDE

QTAC CODE	BACHELOR DEGREE IN	DURATION	DELIVERY MODE	LOCATION	QLD 2011 OP	QLD 2011 RANK	2011 ATAR	2011 IB	PREREQUISITES	PAGE NO.
733001	Information Technology	3 years	Internal	St Lucia	12	76	73.40	26	Qld Year 12 or equivalent: English, Recommended Maths B	12
751201	Multimedia Design	3 years	Internal	St Lucia	12	76	73.40	26	Qld Year 12 or equivalent: English, Recommended Maths A or Maths B	16
717001	Engineering	4 years	Internal	St Lucia	6	90	88.70	32	Qld Year 12 or equivalent: English, Maths B, Chemistry or Physics	20
731001	Science	3 years	Internal	St Lucia	10	81	78.85	28	Qld Year 12 or equivalent: English, Maths B, Chemistry or Physics	24
707001	Arts	3 years	Internal	St Lucia	10	81	78.85	28	Qld Year 12 or equivalent: English, Recommended Maths A or B	25

UQ CAMPUSES

UQ's campuses are renowned as among the most beautiful and well-equipped in Australia. All UQ ICT programs are delivered at the St Lucia campus.

UQ ST LUCIA

Situated on the Brisbane River just 10 minutes' drive from the CBD, UQ St Lucia is one of Australia's most attractive campuses. It is the ideal setting for both study and recreation, with striking sandstone buildings and beautiful parklands. Students can find just about everything they need, including excellent sporting venues, shops and cafés.

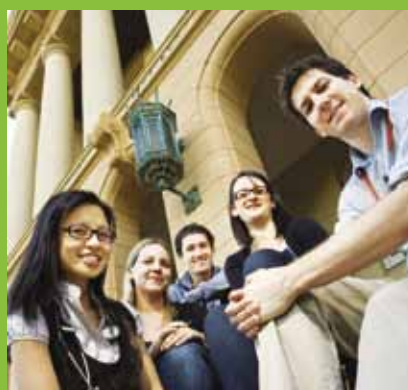
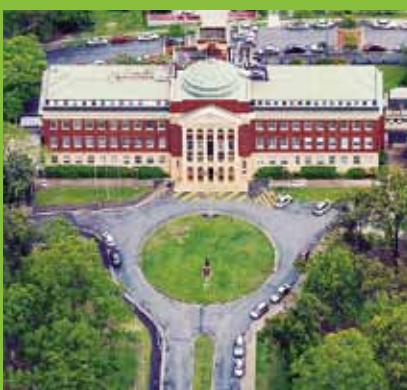


UQ IPSWICH

Ipswich campus offers a personalised learning environment with a unique community feel. Students benefit from small classes held in purpose-designed teaching spaces and also enjoy a range of support, amenities, and recreational services, including a bookshop, cafés, sports court, oval and gym.

UQ GATTON

UQ Gatton delivers excellence in agricultural and natural resource sciences in a relaxed, friendly atmosphere. Just under an hour's drive west of Brisbane, the campus offers a unique blend of recreational amenities, support services, modern teaching facilities, state-of-the-art labs and historic buildings, along with the \$33 million Centre for Advanced Animal Science.



UQ HERSTON

Herston is UQ's major clinical health teaching and research site. The campus is close to Brisbane's CBD and is located alongside the Royal Brisbane and Women's Hospital and the Royal Children's Hospital. This co-location demonstrates our commitment to working closely with health professionals and researchers to deliver innovative and contemporary health education programs.



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

CONTACT DETAILS & FURTHER INFORMATION

School of Information Technology and Electrical Engineering

General Purpose South Building
The University of Queensland
Brisbane Qld 4072
AUSTRALIA

Phone +61 7 3365 2097
Fax +61 7 3365 4999
Email enquiries@itee.uq.edu.au
Internet www.itee.uq.edu.au

Faculty of Engineering, Architecture and Information Technology

The University of Queensland
Brisbane Qld 4072
AUSTRALIA

Phone +61 7 3365 4777
Fax +61 7 3365 4444
Email admin@eait.uq.edu.au
Internet www.eait.uq.edu.au

UQ Admissions

JD Story Building
The University of Queensland
Brisbane Qld 4072
AUSTRALIA

Phone +61 7 3365 2203
Fax +61 7 3365 2061
Email admissionsenquiries@admin.uq.edu.au
Internet www.uq.edu.au/study

International Admissions Section

JD Story Building
The University of Queensland
Brisbane Qld 4072
AUSTRALIA

Phone +61 7 3365 7941
Fax +61 7 3365 1794
Email study@uq.edu.au
Internet www.uq.edu.au/study

QTAC

PO Box 1331
Level 2, 33 Park Road Milton
Brisbane Qld 4064
AUSTRALIA

Phone +61 7 3858 1222
Fax +61 7 3367 1164
Email qtac@qtac.edu.au
Internet www.qtac.edu.au



This publication
is printed on
recycled paper.

Undergraduate Scholarships and Prizes Office

Phone +61 7 3365 7113
Fax +61 7 3365 7559
Email ugscholarships@uq.edu.au
Internet www.uq.edu.au/study/scholarships/undergraduate

Fees and Commonwealth Scholarships

For regularly updated information visit
www.uq.edu.au/study

Disability Unit

Student Services
Relaxation Block
The University of Queensland
Brisbane Qld 4072
AUSTRALIA

Phone +61 7 3365 1704
Fax +61 7 3365 1702
Email ss@uq.edu.au
Internet www.uq.edu.au/student-services

Any student with a disability who may require alternative academic arrangements is encouraged to seek advice at the commencement of the semester from a Disability Advisor at Student Services.

UQ Publications

Find out more about UQ programs, campuses, student services, admissions procedures and fees through these publications

- *Undergraduate Prospectus for Australian Students*
- *Undergraduate Prospectus for International Students*
- *Postgraduate Prospectus for Australian Students*, and
- *Postgraduate Prospectus for International Students*.

Publications are available from UQ Admissions.

Campus tours

Tours of UQ's campuses are held throughout the year. To find out more about campus tours visit www.uq.edu.au/experience or contact our Student Recruitment Team.

Phone +61 7 3346 9649
Email student.recruitment@uq.edu.au

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, July 16-17, 2011

UQ Open Day

UQ St Lucia campus
Sunday, August 7, 2011

Young ICT Explorers Judging Event

Saturday, August 13, 2011

RoboCup Junior Qld

Saturday and Sunday, August 20-21, 2011

UQ Gatton Open Day

UQ Gatton campus
Sunday, August 21, 2011

UQ Ipswich Open Day

UQ Ipswich campus
Wednesday, August 24, 2011

ITEE Innovation Expo

Thursday, October 27, 2011

QTAC closing date

for on-time applications
Friday, September 30, 2011

Semester 1, 2012

classes commence
Monday, February 27, 2012