

Built Environment and Engineering

Isuru Wickramasinghe Sri Lanka
PhD in Engineering

QUT's reputation as a leading university for engineering research made it an easy choice to undertake my postgraduate study. Undertaking research at QUT will help advance my career opportunities – the faculty's emphasis on real world problem-solving is helping me develop both the technical and leadership skills required to reach my goal of working in a management role. We use state-of-the-art facilities and are given great support from the research office.



Why choose Built Environment, Design or Engineering at QUT?

- QUT was the only Australian university appointed as a learning partner by Shell Inc. in a consortium of four universities to support its global project academy.
- QUT and CSIRO have entered into a collaborative research arrangement to undertake research that will enable civilian uses of Unmanned Airborne Vehicles (UAVs).
- Our researchers are designing a new generation of artificial hearts that could extend cardiac patients' lives by 10 or more years.
- Our scientists are developing cheap portable personal solar cells able to recharge laptops and mobile phones.
- Our research in Building and Infrastructure Systems helps communities to live and work in buildings which are safe, environmentally friendly and cost effective.
- QUT is the only university in Queensland to provide the Power Engineering Supply Training Course.

Global links

- Shell Project Academy
- ICALL (International Construction Research Alliance (Stamford University, Salford University, Vtt Finland, Centre Scientific et Technique Du Batimat, France)
- Construction Industry Institute (Texas, Europe, Australia, Hong Kong)
- Politecnico di Milano and Politecnico di Torino

- University of Stuttgart, Germany
- Aalto University, Finland
- Technical University Berlin, Germany
- École Polytechnique de Montréal, Canada.
- University of Indonesia
- Universitas Pelitas Harapan, Indonesia

International accreditations

Our Faculty has international accreditation with international professional associations and local associations in the UK, New Zealand, Hong Kong, Singapore, and Malaysia.

Facilities

- Aerospace flight simulator
- Architectural science and lighting laboratory
- Computer visualisation laboratory
- High-tech lecture/seminar rooms
- Mechatronics laboratory
- Robotics Laboratory
- Lighting and colour laboratory
- Design Studios
- Design Workshops
- Mechanical workshops
- Postgraduate student centre
- Research resources laboratory
- Student experiential learning centre
- Synthetic environment laboratory
- Timber, metals and plastics workshops
- 24-hour computer laboratories

Number of students

6000

Careers

Architect
Landscape Architect
Engineer
Industrial designer
Interior designer
Project manager
Quantity surveyor
Urban planner

Undergraduate study areas

Engineering systems, including:
Aerospace Avionics
Civil
Civil and Construction Management
Civil and Environmental Management
Electrical
Mechatronics
Mechanical
Medical
Computer and Software Systems

Urban Development, including:

Construction Management
Property Economics
Quantity Surveying
Spatial Sciences (Surveying)
Urban and Regional Planning

Design, including:

Architecture
Industrial Design
Interior Design
Landscape Architecture

www.qut.edu.au/bee



Course information

Bachelor of Design (Architectural Studies) (DE40)

CRICOS code: 056386C

Indicative fee: \$12,400 per semester

Campus: Gardens Point

Semester of entry: February

Duration: 4 years (8 semesters) full-time

Program objectives:

Design is the focus of this course; these studies are supported by studies in architectural technology, history and culture of architecture, ethical and legislative frameworks, and the study of architecture in practice.

Why choose QUT for architectural studies?

The course is delivered by highly qualified multicultural staff with International practice experience. Students have the opportunity to undertake workplace learning as part of the course. The course includes teaching beyond classroom which consists of study tours, community projects and collaborative studios with universities overseas

Professional recognition:

Accreditation for the Bachelor of Design (Architectural Studies) and the Master of Architecture is being sought from the Architecture Accreditation Council of Australia.

Graduates of this course will be eligible to articulate to the DE80 Master of Architecture

Career outcomes:

Architects design buildings, provide concepts, specifications, detailed drawings, and plans. They oversee construction, negotiate with planning authorities, and inspect the work in progress. They are required to have design skills and technical knowledge of materials and processes used in construction. Architects can be employed in general practice or choose to specialise. Some of the specialisations available are commercial, industrial and institutional developments, historic building conservation and housing renovation. They can also be involved in project feasibility studies and strategic asset investigations. Architecture embraces art, technology and service. Architects play a leading role in interdisciplinary teams to solve problems of the built environment. A Master of Architecture gives graduates exciting career choices and the opportunity to travel and work all over the world.

Program structure:

Year 1

- Design and sustainability
- architectural design 1
- Introducing design
- Visualisation
- Architectural Design 2
- Placemaking in Architecture
- Introducing Design History
- Visualisation 2

Year 2

- Architectural Design 3
- Architecture in the 20th century
- Integrated technologies 1
- Second minor OR major unit
- Architectural Design 4
- Architecture, culture and space
- Architectural technology 1
- Second minor OR major unit

Year 3

- Architectural Design 5
- Architecture and the city
- Integrated technologies 2
- Second minor OR major unit
- Architectural Design 6
- Architectural technology 2
- Collaborative design
- Second minor OR major unit

Year 4

- Architectural Design 7
- Design and research
- Second minor OR major unit
- Second minor OR major unit
- Architectural design 8
- Professional practice
- Second minor OR major unit
- Second minor OR major unit

Opportunity to select from two four-unit approved minors or one eight-unit approved major to enhance and broaden your knowledge in a related field or an area of interest.

Bachelor of Design (Industrial Design) (DE40)

CRICOS code: 056386C

Indicative fee: \$12,400 per semester

Campus: Gardens Point

Semester of entry: February

Duration: 4 years (8 semesters) full-time

Program objectives:

Students in the course develop the capacity to contribute to the design of products and systems for the mutual benefit of users and manufacturers of a wide range of products.

Why choose QUT for industrial design?

The QUT Industrial Design course philosophy is to educate industrial designers to play a leading role in the design and development of products or systems in our changing environment. It aims to enhance the quality of life by ensuring that new technologies are working for the benefit of their users.

Students have the ability to undertake workplace learning as part of the course, as well as undertake practically orientated activities during the course including workshop activities, design studio projects, product testing and interaction analysis, and product visualisation in synthetic environments.

Professional recognition:

Recognition of the Bachelor of Design (Industrial Design) is being sought from the Design Institute of Australia. QUT is an Educational Member of the International Council of Societies of Industrial Design (ICSID).

Career outcomes:

Industrial designers create and produce commercial and industrial products to improve people's lives. They make models and prototypes of designs that cover a wide range of manufactured goods from toasters to computer terminals to rapid transport systems. When designing new or improving existing products, they must consider factors influencing product design such as usability, costs, materials, technology, marketability, or environment. They research user needs product usage, make detailed drawings, and supervise the construction of prototypes for testing. They mainly work in small business or consulting practices. QUT Industrial Design graduates are working worldwide in places such as the UK, Singapore and France.

Program structure:

Students are able to select from two four-unit approved minors or one eight-unit approved major to enhance and broaden their knowledge in a related field or an area of interest.

Year 1

- Design and sustainability
- Introducing design
- Visualisation 1
- Industrial design 1
- Introducing Design History
- Visualisation 2
- Industrial design 2
- Product usability

Year 2

- Industrial design 3
- Computer-aided industrial design
- Manufacturing technology
- Second minor OR major unit
- Industrial design 4
- Socio-cultural studies in design
- Second minor OR major unit
- Second minor OR major unit

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Year 3

- Industrial design 5
- Industrial design history, theory and criticism
- Second minor OR major unit
- Second minor OR major unit
- Collaborative design
- Industrial design 6
- New product development
- Second minor OR major unit

Year 4

- Design and research
- Industrial design 7
- Human-centred design innovation
- Second minor OR major unit
- Professional practice
- Research and innovation 1
- Research and innovation 2
- Second minor OR major unit

Bachelor of Design (Interior Design) (DE40)

CRICOS code: 056386C

Indicative fee: \$12,400 per semester

Campus: Gardens Point

Semester of entry: February

Duration: 4 years (8 semesters) full-time

Program objectives:

Students undertaking this course receive a general background in studies in built environment combined with a series of experience exercises relating to basic design and specifically to interior design.

Why choose QUT for interior design?

The QUT course is recognised nationally and internationally. This course strives to balance the broad cultural aspects of education and the specialised demands of interior design. Students have the ability to undertake workplace learning as part of the course.

Professional recognition:

Successful completion of the Bachelor of Design (Interior Design) is recognised by the Design Institute of Australia as meeting the basic requirements for professional practice.

Career outcomes:

Interior designers plan and document the layout, finishes, lighting, fittings, and furnishings in domestic interior design, retail and entertainment industry design, hospitality industry design, commercial office, and corporate design. Interior designers may work as consultants or with a design company. They may also seek work involving production design for film, television, and theatre, as well as furniture and exhibition design. There is a trend for Australian interior design companies to practise in South-East Asia and bid competitively for international commissions.

Program structure:

Students are able to select from two four-unit approved minors or one eight-unit approved major to enhance and broaden their knowledge in a related field or an area of interest.

Year 1

- Design and sustainability
- Introducing design
- Visualisation 1
- Interior design 1
- Introducing Design History
- Visualisation 2
- Interior design 2
- Design technology

Year 2

- Interior design 3
- Colour studies
- Technical Design
- Second minor OR major unit
- Interior design 4
- Interior Systems
- Human environment
- Second minor OR major unit

Year 3

- Interior design 5
- Environments in transition
- Furniture studies
- Second minor OR major unit
- Collaborative design
- Interior design 6
- Design in society
- Second minor OR major unit

Year 4

- Design and research
- Interior design 7
- Second minor OR major unit
- Second minor OR major unit
- Professional practice
- Interior design 8
- Second minor OR major unit
- Second minor OR major unit

Bachelor of Design (Landscape Architecture) (DE40)

CRICOS code: 056386C

Indicative fee: \$12,400 per semester

Campus: Gardens Point

Semester of entry: February

Duration: 4 years (8 semesters) full-time

Program objectives:

Landscape Architecture is concerned with the ordered design of open spaces at all scales: the appearance, atmosphere and suitability of the environment to assure its health and welfare, and that of its inhabitants. Your course covers landscape design and theory, professional practice, graphic and other communication skills, environmental and sustainability issues relating to landscape architecture and landscape construction supported by project and fieldwork.

Why choose QUT for landscape architecture?

QUT is one of the leading educators of Landscape Architecture in Australia, giving you the professional skills and ethics to practise in and advance the profession of Landscape Architecture

Professional recognition:

This course is accredited by the Australian Institute of Landscape Architects.

Career outcomes:

Landscape Architecture is predominantly a young profession with a significant number of female practitioners. Sixty per cent of the profession is employed in private practices of landscape architects, architects, planners, urban designers and engineers. They are engaged primarily in site planning, site design, planting design, and to a lesser degree, landscape planning. Other opportunities for employment occur in the design sectors of government agencies. Some graduates work freelance on a contractual basis.

Program structure:

Students are able to select from two four-unit approved minors or one eight-unit approved major to enhance and broaden their knowledge in a related field or an area of interest.

Year 1

- Design and sustainability
- Introducing design
- Visualisation
- Landscape design 1
- Introducing Design History
- Visualisation 2
- Landscape Design 2
- Landscape Horticulture

Year 2

- Landscape Design 3
- Landscape Ecology
- Second minor OR major unit
- Second minor OR major unit
- Landscape Design 4
- Landscape Construction 1
- Second minor OR major unit
- Second minor OR major unit

Year 3

- Landscape Design 5
- History and criticism of Landscape Design
- Landscape construction 2
- Second Minor OR major unit
- Collaborative design
- Landscape Practice and Law
- Landscape construction Law
- Second minor OR major unit

Year 4

- Design and research
- Landscape Design 6
- Landscape Design 7
- Second minor OR major unit
- Professional practice
- Landscape planning and Policy
- Landscape Design 8
- Second Minor OR major unit

Bachelor of Engineering (EN40)

At QUT, we understand that it takes time to work out study options that suit you best. That's why we've designed our courses with flexibility in mind. Our Bachelor of Engineering degree gives you the option of gaining knowledge across a broad range of engineering units in the first year before having to commit to a specialist discipline. This means that you can get extra time to decide on your area of specialisation but still complete your degree in four years.

Structure of the engineering degree:

Foundation Units

Eight core units are undertaken as a broad-based introduction to the principles of engineering. Two of these are faculty-wide units in the areas of sustainability and professional learning.

Streaming units

Sixteen units in either Civil, Mechanical or Electrical.

Specialisation units

Eight units in one of the following specialisation areas depending on the selected stream:

Civil stream

- Civil
- Civil and construction
- Civil and environmental

Mechanical stream

- Mechanical
- Automotive engineering
- Medical engineering
- Mechatronics

Electrical stream

- Electrical
- Aerospace avionics
- Software engineering

Bachelor of Engineering (Dean's Scholars Program) (EN40)

CRICOS code: 056529D

Indicative fee: \$12,500 per semester, less sponsorship of approximately \$4000

Campus: Gardens Point

Semester of entry: February and July

Duration: 3.5 to 4 years (7 semesters) full-time (Bachelor) or 4 to 4.5 years (8–9 semesters) full-time (for Bachelor and Masters)

Program objectives:

The Dean's Scholars Program can be taken as an accelerated program and has been designed specifically for students with an OP 1, or equivalent Year 12 results, who have also been involved in extra curricular, community service, or other activities. The Program provides the opportunity to complete a Bachelor of Engineering and a Master of Engineering Science in four to four and a half years. Students have the option of exiting after the Bachelor of Engineering (three and a half years). To be eligible to enrol in the masters program, students must have achieved an overall grade point average of 5.5 in the Bachelor of Engineering.

Why choose QUT for engineering – Dean's Scholars Program?

The Dean's Scholars Program is the only one of its kind in Queensland, which has positioned QUT as a leader in engineering. It can be taken as an accelerated program of study offering a real edge to engineering students. This is a unique program that will allow you to complete an undergraduate degree and a masters degree in four years.

Professional recognition:

This course is accredited by Engineers Australia. EA is a signatory to the Washington Accord, which permits graduates from accredited member courses to work in various countries across the world.

Scholarship:

International students eligible for a Queensland OP, who are successful in gaining entry and enrol, will receive a scholarship, which will partially cover their tuition fees. The Faculty will pay one third of the tuition fee and the student will be responsible for two thirds of the tuition fee and the Student Guild fees. Students who complete their degree with a course GPA of 5.5 or above and accept an offer to continue to the Master of Engineering accelerated program, will receive further scholarship benefits: payment of the one third of the tuition fees for the masters program.

Program structure:

Students can choose to complete one out of seven Bachelor of Engineering programs. This does not include the Bachelor of Engineering (Aerospace Avionics) and Bachelor of Engineering (Computer and Software Systems).

Bachelor of Engineering (Aerospace Avionics) (EN40)

CRICOS code: 056529D

Indicative fee: \$12,500 per semester

Campus: Gardens Point

Semester of entry: February and July

Duration: 4 years (8 semesters) full-time

Program objectives:

Students study aerodynamics, aircraft control systems, avionics navigation, and communication. In later years of the degree, specialist study is undertaken in design of aircraft and satellite systems including systems engineering methodology, aircraft and satellite technology and applications. As many of the teaching staff are involved in relevant research with government and industry sectors, students have the opportunity to work on real projects during their studies.

Why choose QUT for aerospace avionics?

The Aerospace Avionics course at QUT is unique in Australia. Students are involved in real-world hands-on industry and research projects such fixed-wing UAV and rotorcraft, aerospace vision systems, aircraft control systems and autopilot design.

Professional recognition:

This course is accredited by Engineers Australia. EA is a signatory to the Washington Accord, which permits graduates from accredited member courses to work in various countries across the world.

Career outcomes:

Aerospace engineers are involved in the design, development, manufacture, and maintenance work on aeroplanes, helicopters, spacecraft and satellites. Graduates are employed by the RAAF, RAN, and by government bodies such as the Defence Research Centres and the Civil Aviation Authority. There are also career opportunities with aerospace companies, aircraft maintenance, and aeronautical consulting services. Opportunities outside aerospace also exist in the areas of electronics, process control, instrument manufacture, and automotive equipment.

Program structure:

Year 1 – Semester 1

- Engineering sustainability
- Engineering statics and materials
- Mechanical and Thermal energy
- Foundations of engineering mathematics

OR

- Mathematics for engineering 1

Year 1 – Semester 2

- Electrical energy and measurements
- Introducing engineering design
- Introducing engineering systems
- Mathematics for engineering 1

OR

- Mathematics for engineering 2

Year 2 – Semester 1

- Introduction to electronics
- Engineering problem solving
- Electrical circuits
- Mathematics for engineering 2

OR

- Engineering Mathematics 3

Year 2 – Semester 2

- Aerodynamics
- Introduction to telecommunications
- Linear circuits and systems
- Microprocessors and digital systems

Year 3 – Semester 1

- Software systems design
- Signals, systems and transforms
- Aircraft systems and flight control
- Introduction to systems design

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Year 3 – Semester 2

- Fields, transmission and propagation
 - Modern flight control systems
 - Advanced systems design
 - Engineering mathematics 3
- OR
- Selective

Year 4 – Semester 1

- Project 1
- Digital communications
- RF and modern applications
- Aerospace radio and radar systems

Year 4 – Semester 2

- Work integrated learning 1
- Project 2
- Spacecraft and guidance control
- Navigation systems for aircraft

Bachelor of Engineering (Electrical) (EN40)

CRICOS code: 056529D

Indicative fee: \$12,500 per semester

Campus: Gardens Point

Semester of entry: February and July

Duration: 4 years (8 semesters) full-time

Program objectives:

This degree offers a balanced mix of theory and practice with the objective of preparing graduates for the work environment. Students will receive a thorough grounding in the engineering sciences and hands-on, practical experience in real-world problem solving, and application of theory to suit industry needs.

Why choose QUT for electrical engineering?

Electrical Engineering at QUT is widely respected and its strong industry links ensure you will be work-ready upon graduation.

Professional recognition:

This course is accredited by Engineers Australia. EA is a signatory to the Washington Accord, which permits graduates from accredited member courses to work in various countries across the world.

Career outcomes:

Electrical engineers design, install, and maintain electrical, electronic, telecommunications, and computing systems. They may specialise as electrical power engineers, electrical design engineers, and communications or computer engineers. Graduates find employment with electricity boards, government and semi-government departments, and large manufacturing and engineering companies.

Additional program requirements:

To graduate, students must complete at least 60 days of industrial experience in an engineering environment which is approved by the Course Coordinator.

Program structure:

Year 1 – Semester 1

- Engineering and sustainability
 - Engineering statics and materials
 - Mechanical and Thermal energy
 - Foundations of engineering mathematics
- OR
- Mathematics for engineering 1

Year 1 – Semester 2

- Electrical energy and measurements
 - Introducing engineering design
 - Introducing engineering systems
 - Mathematics for engineering 1
- OR
- Mathematics for engineering 2

Year 2 – Semester 1

- Introduction to electronics
 - Engineering problem solving
 - Electrical circuits
 - Mathematics for engineering 2
- OR
- Engineering mathematics 3

Year 2 – Semester 2

- Introduction to telecommunications
- Linear circuits and systems
- Microprocessors and digital systems
- Introduction to design and professional practice

Year 3 – Semester 1

- Software systems design
- Instrumentation and control
- Power systems and machines
- Signals, systems and transforms

Year 3 – Semester 2

- Fields, transmission and propagation
 - Industrial electronics
 - Advanced design and professional practice
 - Engineering mathematics 3
- OR
- Selective

Please note:

Students wishing to undertake CEED based Industry Project should consult the Subject Area Coordinator to provide a program for the final year. CEED program requires that you undertake units BEB701, BEB801 and BEB802 together in either Semester 1 or 2.

Year 4 – Semester 1

- Project 1
- Digital communications
- Second major/minor unit
- Second major/minor unit

Year 4 – Semester 2

- Work integrated learning 1
- Project 2
- Major/minor unit
- Major/minor unit

Bachelor of Engineering (Mechatronics) (EN40)

CRICOS code: 056529D

Indicative fee: \$12,500 per semester

Campus: Gardens Point

Semester of entry: February and July

Duration: 4 years (8 semesters) full-time

Program objectives:

This course bridges the three, traditionally separate, disciplines of Mechanical Engineering, Electrical and Electronic Engineering, and Computing, and provides the combined skills required for the design, development, construction, and service of modern systems and equipment. Advanced Units: emphasise the integration of knowledge and skills that impact on all aspects of the design, construction, and service of modern computer controlled machines. In the final year a one-semester industry project will integrate and reinforce what has been learned through application in a real-world setting.

Why choose QUT for mechatronics engineering?

This leading-edge degree will provide you with the combined skills of mechanical engineering, electrical and electronic engineering, and information technology.

Professional recognition:

This course is accredited by Engineers Australia. EA is a signatory to the Washington Accord, which permits graduates from accredited member courses to work in various countries across the world.

Career outcomes:

This leading-edge degree provides graduates with the combined skills of mechanical engineering, electrical and electronic engineering, and information technology to work in the high-tech fields of automated systems and robotics for the design, development, construction, and service of modern equipment and plant. Graduates from this degree may expect to find employment as consultants, project managers, designers, and maintenance and instrumentation engineers, in a wide variety of work situations. The range of employment opportunities is diverse and extensive. Some typical examples of organisations may include: manufacturing plants of consumer products, computer peripherals manufacturers/maintenance companies, automobile manufacturing industries, large scale manufacturing/maintenance industries such as Boeing, instrumentation industries, communication companies, research organisations, food and food processing industries, and software development companies.

Additional program requirements:

Students must obtain at least 60 days of industrial work experience in an engineering environment approved by the course coordinator.

Program structure:

Year 1 – Semester 1

- Engineering and sustainability
 - Engineering statics and materials
 - Electrical energy and measurements
 - Foundations of engineering mathematics
- OR
- Mathematics for engineering 1

Year 1 – Semester 2

- Electrical and Energy measurements
 - Introducing engineering design
 - Introducing engineering systems
 - Mathematics for engineering 1
- OR
- Mathematics for engineering 2

Year 2 – Semester 1

- Dynamics
 - Strength of materials
 - Materials and manufacturing 1
 - Mathematics for engineering 2
- OR
- Engineering mathematics 3

Year 2 – Semester 2

- Fundamentals of mechanical design
- Fluid mechanics
- Materials and manufacturing 2
- Building IT systems

Year 3 – Semester 1

- Thermodynamics 1
- Introduction to electronics
- Electrical circuits
- Design for manufacturing

Year 3 – Semester 2

- Linear circuits and systems
- Microprocessors and digital systems
- Programming
- Mechatronics system design

Year 4 – Semester 1

- Instrumentation and control
- Engineering Mathematics 3 or Selective
- Software development
- Computational intelligence for control and embedded systems

Year 4 – Semester 2

- Work integrated learning 1
- Project 1
- Project 2
- Operations management

Bachelor of Engineering (Mechanical) (EN40)

CRICOS code: 056529D

Indicative fee: \$12,500 per semester

Campus: Gardens Point

Semester of entry: February and July

Duration: 4 years (8 semesters) full-time

Program objectives:

This degree offers a balanced mix of theory and practice with the objective of preparing graduates for the work environment. Students will receive a

thorough grounding in the engineering sciences and hands-on, practical experience in real-world problem solving and application of theory to suit industry needs.

Why choose QUT for mechanical engineering?

Mechanical Engineering at QUT has a well-established and highly regarded reputation for teaching and produces graduates who are highly sought after by industry.

Professional recognition:

This course is accredited by Engineers Australia. EA is a signatory to the Washington Accord, which permits graduates from accredited member courses to work in various countries across the world.

Career outcomes:

The Bachelor of Engineering (Mechanical) provides a sound education in the basic engineering sciences, synthesis and design, engineering management functions, and the social, economic, and ethical aspects of engineering practice. Graduates from this degree may find employment in a variety of roles: consultant, project manager, or technical adviser, where they may be involved in the operation of large, integrated energy-based plants such as mining, power stations, sugar factories, oil refineries etc. Others may work under the guidance of more experienced staff selecting equipment, and installing and commissioning plants. Some graduates will go into design offices or manufacturing plants where they will be concerned principally with the logistics of production and the efficient management of people and systems.

Early exit option:

After completing a designated program, you may have the option to exit after three years with a Bachelor of Technology (Mechanical). To be eligible for this option, students must advise the course coordinator of their intention by the end of year two at the latest.

Additional program requirements:

A candidate for the degree of Bachelor of Engineering (Mechanical) must complete at least 60 days of industrial experience/practice in an engineering environment approved by the course coordinator.

Program structure:

Year 1 – Semester 1

- Engineering and sustainability
 - Engineering statics and materials
 - Mechanical and thermal energy
 - Foundations of engineering mathematics
- OR
- Mathematics for engineering 1

Year 1 – Semester 2

- Electrical energy and measurements
 - Introducing engineering design
 - Engineering systems
 - Mathematics for engineering 1
- OR
- Mathematics for engineering 2

Year 2 – Semester 1

- Dynamics
 - Strength of materials
 - Materials and manufacturing 1
 - Mathematics for engineering 2
- OR
- Engineering mathematics 3

Year 2 – Semester 2

- Electrical and Computer engineering
- Fundamentals of mechanical design
- Fluid mechanics
- Materials and manufacturing 2

Please note:

Students wishing to undertake CEED-based Industry Project should consult the Subject Area Coordinator to provide a program for the final two years. CEED program requires that you undertake units BEB701, BEB801 and BEB802 together in either Semester 1 or 2.

Year 3 – Semester 1

- Thermodynamics 1
- Stress analysis
- Dynamics of machinery
- Design of machine elements

Year 3 – Semester 2

- Automatic control
 - Design and maintenance of machinery
 - Fluids dynamics
 - Engineering mathematics 3
- OR

- Selective

Year 4 – Semester 1

- Project 1
- Thermodynamics 2
- Second major/minor unit
- Second major/minor unit

Year 4 – Semester 2

- Work integrated learning 1
- Project 2
- Second major/minor unit
- Second major/minor unit

Bachelor of Engineering (Medical) (EN40)

CRICOS code: 056529D

Indicative fee: \$12,500 per semester

Campus: Gardens Point

Semester of entry: February and July

Duration: 4 years (8 semesters) full-time

Program objectives:

This degree integrates physical, chemical, mathematical, and computational sciences, and engineering principles to study human biology, medicine, human behaviour, and health. It will provide you with the skills to design, manufacture, install, monitor, and maintain medical and surgical equipment, and to provide advice on engineering matters to medical and

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allied health staff. Current issues such as total quality management and health legislation are also covered. In the final year, students undertake a design project in the biomedical field.

Why choose QUT for medical engineering?

The Bachelor of Engineering (Medical) will provide you with the skills to design, manufacture, install, monitor, and maintain medical and surgical equipment, and to provide advice on engineering matters to medical and allied staff.

Professional recognition:

This course is accredited by Engineers Australia. EA is a signatory to the Washington Accord, which permits graduates from accredited member courses to work in various countries across the world.

Career outcomes:

Graduates from this degree may expect to find employment in hospitals as advisers to health and medical professionals, in firms concerned with the design, manufacture, supply, and maintenance of medical, health and sporting equipment, occupational health agencies, and in research institutions. In the early stages of their careers, biomedical engineers might expect to be involved in the innovative use of technology, in the design of new devices, and the assessment of appropriate engineering solutions to medical problems. More experienced biomedical engineers manage Biomedical Engineering Departments in hospitals and manufacturing companies, and lead teams of engineers and technologists in the development of engineering solutions to improve health care.

Additional program requirements:

Students must obtain at least 60 days of industrial employment in an engineering environment approved by the course coordinator. Half of this experience must be in an industry related to Biomedical Engineering.

Program structure:

Year 1 – Semester 1

- Engineering and sustainability
- Engineering statics and materials
- Mechanical and Thermal energy
- Foundations of engineering mathematics

OR

- Mathematics for engineering 1

Year 1 – Semester 2

- Electrical and energy measurements
- Introducing engineering design
- Introducing engineering systems
- Mathematics for engineering 1

OR

- Mathematics for engineering 2

Year 2 – Semester 1

- Dynamics
- Strength of materials
- Materials and manufacturing 1
- Mathematics for engineering 2

OR

- Engineering mathematics 3

Year 2 – Semester 2

- Electrical and computer engineering
- Fundamentals of mechanical design
- Fluid mechanics
- Human Anatomy

Year 3 – Semester 1

- Thermodynamics 1
- Stress analysis
- Biomechanical engineering design
- Human physiology

Year 3 – Semester 2

- Automatic control
- Biofluids
- Biomaterials
- Engineering mathematics 3

OR

- Selective

Year 4 – Semester 1

- Project 1
- Biomechanical engineering systems
- Work Integrated Learning 1
- Selective

Year 4 – Semester 2

- Health legislation in the medical environment
- Project 2
- Modelling and simulation for medical engineers
- Biomedical instrumentation

Bachelor of Engineering (Computer and Software Systems) (EN40)

CRICOS code: 056529D

Indicative fee: \$12,500 per semester

Campus: Gardens Point

Semester of entry: February and July

Duration: 4 years (8 semesters) full-time

Program objectives:

The course is a collaborative program between the Faculties of Built Environment and Engineering and Science and Technology, which provides students with the electrical engineering and software development skills to seek employment as software engineers. The engineering component consists of studies in electronic systems engineering, while the information technology component concentrates on software engineering. These studies integrate into a cohesive course which gives a wide and advanced study of modern electronic and computing systems.

Why choose QUT for software engineering?

This degree produces computer and electronic engineers especially suited for the development and application of electronic systems, including micro, mini, and mainframe computer systems in all areas of industry.

Professional recognition:

This course is accredited by Engineers Australia and the Australian Computer Society.

Career outcomes:

Software engineers create, maintain, and modify computer and software programs such as operating systems or communications software. They may also evaluate and deploy new programming tools and techniques and analyse current software products. Graduates may work in a range of occupational environments. Software engineers can work in Engineering/IT-specific industries, as well as in other organisations requiring software engineering expertise.

Program structure:

Year 1 – Semester 1

- Engineering and sustainability
- Engineering statics and materials
- Mechanics and Thermal energy
- Foundations of engineering mathematics

OR

- Mathematics for Engineering 1

Year 1 – Semester 2

- Electrical and Energy measurements
- Introducing engineering design
- Introducing engineering systems
- Mathematics for engineering 1

OR

- Mathematics for engineering 2

Year 2 – Semester 1

- Introduction to electronics
- Engineering problem solving
- Electrical circuits
- Mathematics for engineering 2

OR

- Engineering mathematics 3

Year 2 – Semester 2

- Linear circuits and systems
- Databases
- Networks
- Programming

Year 3 – Semester 1

- Introduction to systems design
- The business of IT
- Software development
- Data structures and algorithms

Year 3 – Semester 2

- Microprocessors and digital systems
- Advanced systems design
- Systems programming
- Engineering mathematics 3

OR

- Selective

Year 4 – Semester 1

- Project 1
- OR
- 1 Major project
 - Real-time computer-based systems
 - Security
 - Selective

Year 4 – Semester 2

- Work integrated learning 1
 - Project 2
- OR
- 2 Major project
 - Interaction design
 - Agile software development

Bachelor of Engineering (Civil) (EN40)

CRICOS code: 056529D

Indicative fee: \$12,500 per semester

Campus: Gardens Point

Semester of entry: February and July

Duration: 4 years (8 semesters) full-time

Program objectives:

This course allows you to develop your knowledge in a number of areas such as: structural analysis and design, computer applications, transport engineering, environmental engineering, geotechnical mechanics, water engineering, construction management, waste management, environmental studies, sustainable development, toxic site rehabilitation, and water and wastewater.

Why choose QUT for civil engineering?

The Faculty of Built Environment and Engineering at QUT is dedicated to quality teaching and learning. The Faculty's interactions with industry and high academic standard make it a unique place to study.

Professional recognition:

This course is accredited by Engineers Australia. EA is a signatory to the Washington Accord, which permits graduates from accredited member courses to work in various countries across the world.

Career outcomes:

Civil engineers plan, design, construct, operate, and maintain roads, bridges, dams, water supply schemes, sewerage systems, transportation, harbours, canals, dockyard facilities, airports, railways, factories, and large buildings. Civil engineers may gain employment with Local, State, and Commonwealth Governments, semi-government agencies, construction firms, power generating authorities, mining firms, property developers and consulting engineering firms. A small number are employed in research activities and teaching. After obtaining suitable experience, there is also the opportunity to establish their own consulting engineering practice.

Early exit option:

After completing a designated program, you will have the option to exit after three years with a Bachelor of Technology (Civil). To be eligible for this option, students must advise the course coordinator of their intention by the end of year two at the latest.

Program structure:

Year 1 – Semester 1

- Engineering and sustainability
- Engineering statics and materials
- Mechanical and thermal energy
- Foundations of engineering mathematics

OR

- Mathematics for engineering 1

Year 1 – Semester 2

- Electrical and energy measurements
- Introducing engineering design
- Introducing Engineering systems
- Mathematics for engineering 1

OR

- Mathematics for engineering 2

Year 2 – Semester 1

- Engineering mechanics of materials
- Geotechnical engineering
- Civil materials
- Engineering mathematics

Year 2 – Semester 2

- Structural engineering 1
- Design of environmentally sustainable systems
- Project engineering 1
- Hydraulic engineering

Year 3 – Semester 1

- Structural engineering 2
- Water engineering
- Design and planning of highways
- Second major/minor unit

Year 3 – Semester 2

- Geotechnical engineering 2
- Transport engineering
- Water and waste water treatment engineering
- Second major/minor unit

Year 4 – Semester 1

- Work integrated learning 1
- Project 1
- Design of concrete structures and foundations
- Second major/minor unit

Year 4 – Semester 2

- Civil engineering design project
- Project engineering 2
- Second major/minor unit
- Selective

Bachelor of Engineering (Civil and Construction) (EN40)

CRICOS code: 056529D

Indicative fee: \$12,500 per semester

Campus: Gardens Point

Semester of entry: February and July

Duration: 4 years (8 semesters) full-time

Program objectives:

This course combines civil engineering with construction management. You will study civil engineering subjects combined with the requirements for managing the construction of large projects.

Why choose QUT for civil and construction engineering?

The Faculty of Built Environment and Engineering at QUT is dedicated to quality teaching and learning. The Faculty's interactions with industry and high academic standard make it a unique place to study.

Professional recognition:

This course is accredited by Engineers Australia. EA is a signatory to the Washington Accord, which permits graduates from accredited member courses to work in various countries across the world.

Career outcomes:

Construction engineering is suited to people attracted to the intellectual rigour of engineering, but with a bias towards the challenge of converting design into physical reality. While the course retains sufficient traditional civil engineering to enable graduates to work in consultant offices, most would be employed by civil construction companies and Government Departments. Commercial and legal studies equip graduates to progress through the management structures of these organisations or to establish companies of their own. The range of work undertaken by civil construction companies ranges from residential land development through earthworks, tunnels, roads, and dams, to airports, marine facilities, major bridges, and complex buildings. The worldwide trend towards design and construction being undertaken within one organisation acts to advantage engineers competent in both.

Early exit option:

After completing a designated program, you may have the option to exit after three years with a Bachelor of Technology (Civil and Construction). To be eligible for this option, students must advise the Course Coordinator of their intention by the end of year two at the latest.

Additional program requirements:

A candidate for the degree of Bachelor of Engineering (Civil and Construction) must complete at least 60 days of industrial experience/practice in an engineering construction environment as approved by the course coordinator.

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Program structure:

Year 1 – Semester 1

- Engineering and sustainability
- Engineering statics and materials
- Mechanical and Thermal energy
- Foundations of engineering mathematics

OR

- Mathematics for engineering 1

Year 1 – Semester 2

- Electrical and energy measurements
- Introducing engineering design
- Introducing engineering systems
- Mathematics for engineering 1

OR

- Mathematics for engineering 2

Year 2 – Semester 1

- Engineering mechanics of materials
- Geotechnical engineering 1
- Civil materials
- Engineering mathematics 2

Year 2 – Semester 2

- Structural Engineering 1
- Project engineering 1
- Hydraulic engineering
- Professional studies 2

Year 3 – Semester 1

- Structural engineering 2
- Construction engineering law
- Civil engineering construction
- Contract administration

Year 3 – Semester 2

- Geotechnical engineering 2
- Design and construction of steel structures
- Estimating in engineering construction
- Second major/minor unit

Year 4 – Semester 1

- Project 1
- Design and construction of concrete structures and foundations
- Second major/minor unit
- Second major/minor unit

Year 4 – Semester 2

- Work integrated learning 1
- Civil engineering project management
- Second major/minor unit
- Selective

Bachelor of Engineering (Civil and Environmental) (EN40)

CRICOS code: 056529D

Indicative fee: \$12,500 per semester

Campus: Gardens Point

Semester of entry: February and July

Duration: 4 years (8 semesters) full-time

Program objectives:

This course will provide you with the technical education in civil, environmental engineering, and science, as well as environmental management skills, and mining and sustainable development.

Why choose QUT for civil and environmental engineering?

The Faculty of Built Environment and Engineering at QUT is dedicated to quality teaching and learning. The Faculty's interactions with industry and high academic standards make it a unique place to study.

Professional recognition:

This course is accredited by Engineers Australia. EA is a signatory to the Washington Accord, which permits graduates from accredited member courses to work in various countries across the world.

Career outcomes:

Environmental management is concerned mainly with the assessment and management of the effect of human and other activity on the environment. Graduates apply their skills to find solutions for the management of liquid and solid waste, or air and noise pollution. Graduates can be employed by government bodies and private companies involved with the environmental aspects of planning, designing, constructing, and monitoring of structures and facilities including mines, factories, power stations, water and wastewater treatment plants, and refineries. As legislation becomes more stringent and the community's expectations increase, there will be a need for institutions to employ more environmental engineers.

Early exit option:

After completing a designated program, you will have the option to exit after three years with a Bachelor of Technology (Civil and Environmental). To be eligible for this option, students must advise the course coordinator of their intention by the end of year two at the latest.

Additional program requirements:

A candidate for the degree of Bachelor of Engineering (Civil and Environmental) must obtain at least 60 days of industrial experience/practice in an engineering environment as approved by the course coordinator.

Program structure:

Year 1 – Semester 1

- Engineering and sustainability
- Engineering statics and materials
- Mechanical and Thermal energy
- Foundations of engineering mathematics

OR

- Mathematics for engineering 1

Year 1 – Semester 2

- Electrical energy and measurements
- Introducing engineering design
- Introducing engineering systems
- Mathematics for engineering 1

OR

- Mathematics for engineering 2

Year 2 – Semester 1

- Engineering mechanics of materials
- Design of structural timber and earthworks
- Civil materials
- Engineering Mathematics 3

Year 2 – Semester 2

- Hydraulic engineering
- Design of environmentally sustainable systems
- Project engineering 1
- Structural engineering 1

Year 3 – Semester 1

- Environmental resource Management
- Water engineering
- Design and planning of highways
- Earth Surface systems

OR

- Sedimentary geology

Year 3 – Semester 2

- Transport engineering
- Geotechnical Engineering 2
- Environmental Law and assessment
- Selective

Year 4 – Semester 1

- Project 1
- Global Energy Balance and Climate change
- Planning processes and consultation
- Selective

Year 4 – Semester 2

- Work integrated learning 1
- Sustainable environmental management
- Soils and the environment

OR

- Groundwater systems
- Waste water treatment engineering

Bachelor of Urban Development (Construction Management) (UD40)

CRICOS code: 056387B

Indicative fee: \$12,200 per semester

Campus: Gardens Point

Semester of entry: February and July

Duration: 4 years (8 semesters) full-time

Program objectives:

The course is concerned with the management of the overall process of construction projects and provides detailed understanding of project development from conception, through planning and construction to commissioning and maintenance. It develops skills in how to manage people, materials, equipment and plant while focusing on issues such as cost, time, quality, safety, and the environment. It educates students to become effective construction managers with comprehensive technological knowledge, management principles, and communication skills.

Why choose QUT for construction management?

The Construction Management course at QUT is considered one of the best in Australia and is highly ranked internationally.

Professional recognition:

This course is accredited by the Australian Institute of Building.

Career outcomes:

Graduates employed in the construction process are involved in the supervision and coordination of the construction and maintenance of large building projects, the development of government and corporate policies, the administration of regulations, and the development and research of building systems and products. They may be employed in private organisations such as large construction and development companies or consultancies, while some are employed by government departments. Graduates also help to ensure that the requisite standards of building performance, quality, cost schedules and safety are achieved in accordance with the building contract documentation.

Program structure:

Year 1

- Introducing Practice and Sustainability
- Stewardship of land
- Residential construction and engineering
- Engineering construction materials
- Project Planning in Urban Development
- Urban development economics
- Professional studies 1
- Measurement 1

Year 2

- Commercial construction and engineering
- Introductory structural engineering
- Measurement 2
- Construction estimating
- Applied law
- Business skills
- Professional studies 2
- Building services engineering

Year 3

- High-rise construction and engineering
- Structural engineering design
- Contract administration
- Programming and scheduling
- Statutory construction law
- Minor OR major unit
- Minor OR major unit
- Minor OR major unit

Year 4

- Research methods
- Development process
- Construction management
- Minor OR major unit
- Minor OR major unit
- Minor OR major unit
- Minor OR major unit

Bachelor of Urban Development (Property Economics) (UD40)

CRICOS code: 056387B

Indicative fee: \$12,200 per semester

Campus: Gardens Point

Semester of entry: February

Duration: 4 years (8 semesters) full-time

Program objectives:

While studying this course, you will develop a depth of knowledge of the economic, managerial, legal, and technical aspects of the property industry. The course provides integrated learning opportunities with allied disciplines of Spatial Science, Construction Management, Quantity Surveying, and Urban and Regional Planning.

Why choose QUT for property economics?

QUT offers one of the few specialised property courses in Australia. The course is specifically designed with the needs of the property economist in mind.

Professional recognition:

This course is recognised by the Australian Property Institute, the Valuers' Registration Board of Queensland and the Royal Institution of Chartered Surveyors.

Career outcomes:

Property economics is the profession associated with the management, administration, and use of land and property such as office buildings, shopping centres, factories, hotels etc. Graduates work in private practice or as employees of property development, valuation, property management, investment, or property finance companies. They may also work in government departments and local authorities concerned with rating, compulsory acquisitions, or property development.

Additional program requirements:

You are required to obtain a minimum of 30 days of approved professional work experience as part of the unit BEB701 Work Integrated Learning.

Program structure:

Year 1

- Introducing professional practice and sustainability
- Stewardship of land
- Residential construction and engineering
- Property valuation 1
- Project Planning and Urban Development
- Applied law
- Urban development economics
- Building studies

Year 2

- Planning theory and processes
- Property law 1
- Property valuation 2
- Property economics
- Property law 2
- Urban land studies
- Property feasibility studies
- Property valuation 3

Year 3

- Research methods
- Property finance
- Minor OR major unit
- Minor OR major unit
- Development process
- Property and asset management
- Minor OR major unit
- Minor OR major unit

Year 4

- Agency practice and marketing
- Real estate accounting and taxation
- Minor OR major unit
- Minor OR major unit
- Business skills
- Work Integrated Learning
- Minor OR major unit
- Minor OR major unit

Bachelor of Urban Development (Quantity Surveying) (UD40)

CRICOS code: 056387B

Indicative fee: \$12,200 per semester

Campus: Gardens Point

Semester of entry: February and July

Duration: 4 years (8 semesters) full-time

Program objectives:

The course prepares students to work as quantity surveyors or building economists. The course covers building management, cost planning and control, building development techniques, building research, computer software applications, measurement of construction, and legal issues.

Why choose QUT for quantity surveying?

Quantity Surveying graduates enjoy extremely high rates of employment. This course is also one of the highest for student satisfaction at QUT.

Professional recognition:

This course is recognised by the Australian Institute of Quantity Surveyors, Royal Institute of Chartered Surveyors and the Board of Quantity Surveyors, Malaysia.

Career outcomes:

Quantity Surveyors prepare cost estimates and check actual expenditure for large construction projects. They usually work in offices but can also visit building sites, clients, and members of teams. Graduates are employed by private quantity surveying firms, government departments, and building companies.

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Additional program requirements:

You are required to gain a minimum of 100 days of approved employment in the final year of the course as part of the unit UDB411 Professional Practice.

Program structure:

Year 1

- Introducing Practice and sustainability
- Stewardship of land
- Residential construction and engineering
- Engineering construction materials
- Project Planning and Urban Development
- Urban development economics
- Professional studies 1
- Measurement 1

Year 2

- Commercial construction and engineering
- Measurement 2
- Construction estimating
- The environment and the quantity surveyor
- Applied law
- Business skills
- Building services engineering
- Minor OR major unit

Year 3

- High-rise construction and engineering
- Contract administration
- Measurement 3
- Minor OR major unit
- Statutory construction law
- Cost planning and control
- Minor OR major unit
- Minor OR major unit

Year 4

- Research methods
- Work Integrated Learning
- Minor OR major unit
- Minor OR major unit
- Development process
- Project 1 (Dissertation)
- Minor OR major unit
- Minor OR major unit

Bachelor of Urban Development (Spatial Science) (UD40)

CRICOS code: 056387B

Indicative fee: \$12,200 per semester

Campus: Gardens Point

Semester of entry: February

Duration: 4 years (8 semesters) full-time

Program objectives:

This degree is a broad-based course. The first year is a foundation year designed to prepare students to deliver practical solutions to problems involving spatial information and decision making. Students study foundation units such as mathematics, professional studies, and sustainability, as well as surveying in their first year. In the following years the areas covered are geodetic and control surveying, topographic mapping, photogrammetry, mine surveying, hydrographic surveying, land development design, and geographic information systems.

Why choose QUT for spatial science?

There is a high demand for QUT Spatial Science (Surveying) graduates both in Australia and overseas. The employment rate has been near 100 per cent for many years and is not expected to change in the near future.

Professional recognition:

The course is accredited by the Spatial Science Institute and the Queensland Surveyors Board. Recognition is being finalised from the Surveying and spatial Science Institute of Australia (SSSIA)

Career outcomes:

Surveyors assess geographic and land information for implementing appropriate administration for the land, sea, and related structures. Spatial information refers to information about the geographical relationship between places, people, and other items within a particular area. There are employment opportunities in all levels of government, private practice and multi-national companies, statutory authorities or semi-government agencies. You will have the opportunity to travel as the degree is readily accepted overseas. After some years of experience, you may become a manager or specialise as one of the following: Cadastral/Land Surveyor; Engineering Surveyor; Geodetic Surveyor; Mine Surveyor; Remote Sensing Surveyor; Topographic Surveyor; Cartographer (mapping).

Additional program requirements:

You will be required to attend compulsory field practicals off-campus in the Moreton Region and have access to an advanced scientific calculator for use during the course. To graduate you are required to have at least 90 days of approved industrial experience/practice in a surveying/mapping environment.

Program structure:

Year 1

- Introducing Practice and Sustainability
- Mathematical sciences 1A
- Stewardship of land
- Geospatial positioning and GPS
- Project Planning in Urban Development
- Statistical data analysis 1
- Urban development economics
- Surveying

Year 2

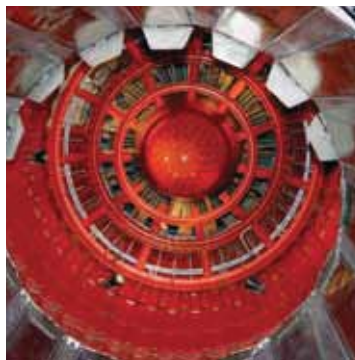
- Physics for surveyors
- Geographic information systems
- Surveying computations
- Cadastral surveying
- Surveying mathematics 2
- Applied law
- Remote sensing
- Engineering surveying

Year 3

- Geospatial mapping and cartography
- Control surveying and analysis
- Cadastral and land management
- Spatial and land information management
- Development process
- Photogrammetric mapping
- Geodesy
- Spatial analysis practice

Year 4

- Research methods
- Global positioning principles and practice
- Minor unit
- Minor unit
- Business skills
- Topographic, hydrographic and mining surveying
- Minor unit
- Minor unit



Bachelor of Urban Development (Urban and Regional Planning) (UD40)

CRICOS code: 056387B

Indicative fee: \$12,200 per semester

Campus: Gardens Point

semester of entry: February

Duration: 4 years (8 semesters) full-time

Program objectives:

This course aims to educate students to become innovative leaders in professional planning, with the capacity and will to create a better world. Graduates will apply perceptive sensibilities and skills to create sustainable natural and human environments. The QUT course emphasises creative design and inclusive community planning. You will have the opportunity to work on live projects with local councils and community groups.

Why choose QUT for urban and regional planning?

Urban and Regional Planning at QUT combines a strong tradition of community involvement with design skills to develop your knowledge and capacity to identify better futures and the practical skills to achieve them.

Professional recognition:

This course is accredited by the Planning Institute of Australia (PIA). Students wishing to gain PIA accreditation to work as practicing planners in Australia are required to complete the BEE accreditation minor along with a second minor of their choice.

Career outcomes:

Urban and Regional Planners develop plans and policies for the use of land and resources. They aim to fulfil the social, cultural, economic, and environmental needs of the community. There are numerous employment opportunities many of which can be found in state and local government departments, and others with private sector planning consultants, and land development enterprises.

The flexible structure of the course enables you to choose a second specialisation or groups of minor units to match your career aspirations and personal goals. This maximises your employment opportunities, offering breadth of knowledge and a real focus based on your unique study plan.

Program structure:

Year 1

- Introducing Practice and Sustainability
- Stewardship of land
- Introduction to planning and design
- History of built environment
- Project planning in Urban Development
- Urban development economics
- Land use planning
- Population and urban studies

Year 2

- Site planning
- Planning processes and consultations
- Minor OR major unit
- Minor OR major unit
- Applied law
- Development assessment and infrastructure
- Minor OR major unit
- Minor OR major unit

Year 3

- Urban design
- Negotiation and conflict resolution
- Minor OR major unit
- Minor OR major unit
- Development process
- Environmental planning and management
- Minor OR major unit
- Minor OR major unit

Year 4

- Research methods
- Urban planning practice
- Community planning
- Planning theory and ethics
- Business skills
- Regional planning practice
- Regional and metropolitan policy
- Practice research project



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Additional costs may be incurred by students in particular courses, for example engineering students may need safety equipment for site visits and creative artists may need materials. Please refer to www.qut.edu.au/fees to check for any additional course costs.

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Credit and advanced standing

QUT may offer you credit based on your previous studies. Please check individual course listings on www.qut.edu.au/courses for more details on credit or advanced standing. QUT has advanced standing with a number of overseas tertiary institutions where credit has been approved. For details on these arrangements, visit www.qut.edu.au/credit

Double Degrees

Built Environment and Engineering degrees are available in the following double degree options:

| CRICOS code | Course code | Course title | Campus | Duration (full-time) | Semester of entry | Indicative fees per semester |
|-------------|-------------|--|---------------|----------------------|-------------------|------------------------------|
| 020329J | IF21 | Bachelor of Engineering (Electrical)/Bachelor of Mathematics | Gardens Point | 5 years | February | \$12,200 |
| 061649J | IX28 | Bachelor of Business/Bachelor of Engineering (Civil, Electrical or Mechanical) | Gardens Point | 5 years | February | \$11,600 |
| 006384G | IX54 | Bachelor of Engineering (Electrical)/Bachelor of Information Technology | Gardens Point | 5 years | February | \$12,200 |

Double degrees require an enrolment of more than the standard credit point load in some semesters.

Want to find out more about the courses you can combine with a QUT Faculty of Built Environment and Engineering degree?

Bachelor of Mathematics Page 84

Bachelor of Business Page 40

Bachelor of Information Technology Page 83