Faculty of Built Environment and Engineering

Entry Programs (International)
QC01 Foundation Program (1 Semester)
QC02 Foundation Program (2 Semesters)
QC03 Bridging Program
QC04 Extended Foundation Program (3 Semesters)
QC10 English for Academic Purposes for degree programs
QC20 General English
QC21 General English Extension
QC22 English for Tertiary Preparation

Diploma
CE35 Associate Degree in Civil Engineering/Bachelor of Technology (Civil)
ME37 Advanced Diploma in Engineering (Mechanical)/Bachelor of Technology (Mechanical)

Bachelor Degree
AR48 Bachelor of Architecture
BN31 Bachelor of Built Environment (Architectural Studies)
BN31 Bachelor of Built Environment (Industrial Design)
BN31 Bachelor of Built Environment (Interior Design)
BN31 Bachelor of Built Environment (Landscape Architecture)
BN31 Bachelor of Built Environment (Urban and Regional Planning)
CE33 Bachelor of Technology (Civil)
CE35 Associate Degree in Civil Engineering/Bachelor of Technology (Civil)
CE44 Bachelor of Engineering (Civil)
CE46 Bachelor of Engineering (Civil and Environmental Management)
CN51 Bachelor of Applied Science (Construction Management)
CN53 Bachelor of Applied Science (Quantity Surveying)
CN54 Bachelor of Property Economics
DE40 Bachelor of Design (Architectural Studies)
DE40 Bachelor of Design (Industrial Design)
DE40 Bachelor of Design (Interior Design)
DE40 Bachelor of Design (Landscape Architecture)
EE41 Bachelor of Engineering (Electrical and Computer Engineering)
EE46 Bachelor of Engineering (Computer Systems)
EE47 Bachelor of Engineering (Telecommunications)
EE48 Bachelor of Engineering (Aerospace Avionics)
EN40 Bachelor of Engineering (Aerospace Avionics)
EN40 Bachelor of Engineering (Civil and Construction)
EN40 Bachelor of Engineering (Civil and Environmental)
EN40 Bachelor of Engineering (Civil)
EN40 Bachelor of Engineering (Computer Systems)
EN40 Bachelor of Engineering (Electrical)
EN40 Bachelor of Engineering (Infomechatronics)
EN40 Bachelor of Engineering (Mechanical)
EN40 Bachelor of Engineering (Medical)
EN40 Bachelor of Engineering (Telecommunications)
EN40 Bachelor of Engineering - Dean's Scholars Program
IX25 Bachelor of Engineering (Software Engineering)
ME36 Bachelor of Technology (Mechanical) Conversion Program
ME37 Advanced Diploma in Engineering (Mechanical)/Bachelor of Technology (Mechanical)
ME40 Bachelor of Engineering (Infomechatronics)
ME41 Bachelor of Engineering (Mechanical)
ME41 Bachelor of Engineering (Mechanical) Conversion Program from Bachelor of Technology
ME36/ME37
ME48 Bachelor of Engineering (Medical)
PS47 Bachelor of Surveying
UD40 Bachelor of Urban Development (Construction Management)
UD40 Bachelor of Urban Development (Property Economics)
UD40 Bachelor of Urban Development (Quantity Surveying)
UD40 Bachelor of Urban Development (Spatial Science)
UD40 Bachelor of Urban Development (Urban and Regional Planning)

Bachelor Degree (Double)
IF21 Bachelor of Engineering (Electrical)/ Bachelor of Mathematics
IF28 Bachelor of Engineering (Electrical)/Bachelor of Business
IF59 Bachelor of Engineering (Electrical)/Bachelor of Information Technology
IX28 Bachelor of Business / Bachelor of Engineering

Graduate Certificate
BN85 Graduate Certificate In Built Environment and Engineering
CN81 Graduate Certificate in Project Management
CN90 Graduate Certificate in Property Economics
IX97 Graduate Certificate In Research Commercialisation
ME75 Graduate Certificate in Engineering Management
PS75 Graduate Certificate in Landscape Techniques
PS82 Graduate Certificate in Planning Studies

Graduate Diploma
AR61 Graduate Diploma in Industrial Design
AR62 Graduate Diploma in Interior Design
CN64 Graduate Diploma in Project Management
CN91 Graduate Diploma in Property Economics
DB69 Graduate Diploma in Urban Design
EE67 Graduate Diploma in Computer and Communications Engineering
PS66 Graduate Diploma in Landscape Architecture
PS72 Graduate Diploma in Urban and Regional Planning
PS74 Graduate Diploma in Geomatics
PS78 Graduate Diploma in Geographic Information Systems

Masters Degree (Coursework)
BN87 Master of Engineering Management
BN88 Master of Infrastructure Management
BN89 Master of Project Management
CE74 Master of Engineering Science (Civil Engineering)
CE75 Master of Engineering Science (Civil Engineering Studies)
CN77 Master of Project Management
CN92 Master of Property Economics
DB73 Master of Built Environment (Urban Design)
DE50 Master of Design (Urban Design)
EE74 Master of Engineering Science (Computer and Communications Engineering)
EE77 Master of Engineering Science (Electrical Engineering Studies)
EN40 Bachelor of Engineering - Dean's Scholars Program
EN50 Master of Engineering (Systems)
ME76 Master of Engineering Management
ME80 Master of Engineering Science (Mechanical Engineering Studies)
PS70 Master of Urban and Regional Planning
PS71 Master of Landscape Architecture
UD50 Master of Urban Development (Urban and Regional Planning)

Masters Degree (Research)
BN71 Master of Applied Science (Research)
BN72 Master of Engineering

Doctoral
CN89 Doctor of Project Management
IF49 Doctor of Philosophy (Built Environment, Engineering)

Study Abroad (Non-degree)
NA05 International Visiting Students
NA06 International Visiting Students

University wide unit sets
  Unit sets: Accounting and Economics
  Unit sets: Advertising, Marketing and Public Relations
  Unit sets: Communication
  Unit sets: Corporate Systems
  Unit sets: Creative Industries
  Unit sets: Environmental Studies
  Unit sets: Health and Psychology
  Unit sets: Information Technology
  Unit sets: International Exchange
  Unit sets: International Studies
  Unit sets: Languages
  Unit sets: Management
  Unit sets: Mathematics and Statistics
  Unit sets: Multimedia and Technologies
  Unit sets: Physical and Chemical Sciences
  Unit sets: Science
  Unit sets: Society and Culture
OVERVIEW

QUT's Built Environment and Engineering Faculty is all about changing and growing to better meet the needs of students, industry and the professions.

The real-world does not stand still and neither do our courses. Industry partners and professional bodies are closely involved in our course development and are increasingly demanding graduates with more breadth and superior skills in dealing with clients and other professionals.

We work hard to ensure all courses are fully recognised or accredited both in Australia and overseas. Sometimes this puts limits on how much choice students have in what they study, but wherever possible we encourage you to broaden your core studies with subjects from across the Faculty or other QUT faculties.

Depending on your course you can choose an eight unit second major or a four unit minor in another field. The Faculty has packaged up a range of second majors and minors that ensure you get a rich and meaningful depth of knowledge in a complementary area rather than skating over the surface of the discipline.

Undergraduate courses are grouped around three broad themes with course structures that maximise interaction:

Bachelor of Design
- Architecture
- Interior Design
- Industrial Design
- Landscape architecture

Bachelor of Urban Development
- Construction management
- Property economics
- Quantity Surveying
- Urban and Regional Planning
- Spatial Science

Bachelor of Engineering
- Aerospace Avionics
- Civil
- Civil and environmental
- Civil and construction
- Computer systems
- Electrical
- Infomechatronics
- Mechanical
- Medical
- Telecommunications

These courses are supported by an extensive research base in the Faculty that is grouped around core themes of medical engineering, smart systems, sustainability and infrastructure. Our research focuses on problems that need to be solved and brings together brilliant people with diverse backgrounds to find new answers. The Faculty is a key player in QUT's research institutes for Sustainable Resources and Health and Biomedical Innovation.

The Faculty has formed partnerships with a range of high-profile organisations including Shell, Brisbane Airport Corporation, Brisbane City Council, CSIRO, QRAIL and Queensland Government. Our partners provide living laboratories for our research and bring their experience to bear through part-time teaching or hosting students undertaking internships and practicums.

A number of the professional bodies that accredit our courses set minimum requirements for practical experience that students must have achieved by the time they graduate. For example, Engineering students complete at least 60 days approved real-work experience and Spatial Science students must have 90 days of such experience. Students complete their work experience through the Faculty's Work Integrated Learning (WIL) programs. These combine university study with real work experience.

Courses in Design and Urban Development can also include opportunities to work on real-world projects. Student work in planning and design regularly wins industry awards and competitions.

SENIOR STAFF

Faculty Office
Executive Dean: Professor M. Betts, BSc (Hons) Reading, PhD CNAIA, FCIOB, FRICS, FIEAust, FRSA, CPEng

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Assistant Dean, External Relations: Professor D. Buisson, BSc MSc(Class 1 Hons) PhD Auck., SM (Management) Massachusetts

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G. Lee, DipID RMIT, MLArch Melb., PhD RMIT
V. Popovic, GradEngArch Belgrade, MFA(IndDes) Ill., PhD Syd., FDIA, MHFS, MAES, MDRS

Associate Professors:
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Head: Professor D.J. Hargreaves, BE(Mech) QIT, MSc PhD Leeds, CPEng, RPEQ, FIEAust, EngExec, MI MechE, M STLE, MASSCT, MA AE, MA CID, NPER

Professor and Chair in Traumatology: M.A. Schütz, DrMed RWTH Aachen, DrMedHabil HU Berlin, FRACS, FAOA, MDGC, MDGU

Professor and Chair in Orthopaedic Research: R.W. Crawford, FRACS(Orth), MAOA

Professor in Power Engineering: A. Ghosh, BE(Elec) ME(Elec) Calcutta, PhD Calgary, FIEEE, FIAE, FIE

Professor and Chair in Regenerative Medicine: D.W. Hutmacher, MBiomedEng, PhD NUS, MBA Henley, MITES, METES, MISB, MAO

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Professor of Biomedical Engineering: M.J. Pearcy, BSc Brst., PhD Strath., CEng, CPEng(Bimed)

Professor in Smart Systems: P.K.V.D Yarlagadda, B Tech Mech(N) Nagarjuna, ME(Prod Eng) Bharathiar, PhD IIT, FIEAust, FIE, SMSME, MASME, MI MechE, MSPE

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V. Chandran, B Tech(Elec) IIT Madras, MS(Elec) TexasTech, MS(CompSci) PhD Wash, State, GradCert(HigherEd) QUT, MIEE, MIEEE, MAPRS
V. Kosse, BE(Mech) PhD ASTU Ukraine, MASME, CMIEAust, MIAV, CMITC, RPEQ
L. Ma, BEng(Mech and Man) Beijing, PhD Qld, MESA X. Miao, BEng(Mat) NE, MEng(Mat) GRINM, PhD Birmingham, MMRS, MASB

RESEARCH THEMES

Design
Design concentrates on investigation of people-systems-environments relationships and provides new knowledge and innovation beneficial to their users. Research in design fields improves the quality of work and life and brings social and economic advantages to the industry and community. Design incorporates research in:

- Architecture
- Industrial Design
- Interior Design
- Landscape Architecture
- Urban Design
- Centre for Subtropical Design.

The theme is cross/inter-disciplinary related with relevant design fields and the other three Faculty Research Themes: Infrastructure, Smart Systems and Medical Engineering. It has links across the University community and Institutes – Institute for Health and Biomedical Innovation (IHI), Institute for Creative Industries Innovation (ICI), Information Security Institute (ISI), Institute for Sustainable Resources and relevant Collaborative Research Centres (CRC) – ACID, Construction and Innovation and AHURI.

Research focus within the theme includes:

- Colour and light
- Cultural landscapes
- Design Education and Design Theory and Methodology
- Design Tools
- Human-Centred Design Research and Usability
- Person-Environment Studies
- Sustainable Systems
- Virtual prototyping.

Medical Engineering
This theme develops and promotes the use of engineering and technology, often in collaboration with surgeons, to provide new techniques, materials, devices, procedures and manufacturing techniques for medical devices. Medical Engineering is based largely on core mechanical and electrical engineering skills applied to problems in medicine. The applied research is built on a strong foundation of knowledge in biomechanics, fluid mechanics and automation and control, but incorporates knowledge in cell biology, human anatomy and physiology. New knowledge is being developed and applied to the full range of orthopaedic diseases and injury (such as knee and hip replacements, fractures and spinal deformities), other diseases such as heart failure, and to provide improved quality of life for people with disabilities. The theme includes research in the following areas:

Orthopaedic and Trauma
Orthopaedics and Trauma Queensland incorporates programs of research collaboration with hospital partners. Key research is conducted in bone and cartilage diseases; bone and cartilage substitute systems; bone fracture healing; spinal surgical procedures; and osteoporotic bone and crush fractures.

Artificial Organs
This area of research investigates non-biological replacement organs, for example, artificial heart; congestive heart failure; and impaired function of other organs.

**Compression Bandaging**

This research project aims to gain a better understanding of the clinical application of pressure bandaging to develop improved bandaging techniques and clinical practice.

**Smart Systems**

**Asset Management**

Infrastructure research, in collaboration with industry, government and professions, aims to strengthen the nation's building and infrastructure systems. Research concentrates on investigating the performance of existing and new building and infrastructure systems under realistic structural and environmental loadings including those due to natural, accidental and man-made hazards. It uses smart materials, systems and technologies, and advanced computer analysis and test methods to assess and improve the performance of existing and new building and infrastructure systems.

Asset Management research focuses on innovative industry-directed research and development, education and commercialisation in an integrated approach to lifecycle physical asset management to meet present and future needs to ensure international competitiveness and sustainability of Australian industry. The overall research program will be focused on five main industry sectors: Defence, Water and Waste, Power Generation and Distribution, Extraction and Process, and Transport Infrastructure.

This research is closely aligned to the CRC for Construction Innovation and the CRC for Integrated Engineering Asset Management (CIEAM).

**Robotics and Automation**

The Robotics and Automation program is focused on world-class research on robotics and navigation systems for unmanned aerial vehicles, and involves collaboration with CSIRO and Boeing. However similar automation strategies and technologies are used in a variety of control applications such as energy network control, and in mechatronic systems, and satellites. Much of the work in this group will be conducted through the newly formed Australian Research Centre for Aerospace Automation (ARCIA).

**Speech and Signal Processing**

This program conducts internationally competitive research in order to solve practical problems, which enable Speech and Signal Processing to be applied in products and processes. Research focuses on, state-of-the-art speech audio and video technologies including speech/speaker recognition and personal identification technologies for forensic and security applications; speech coding for storage and communication; speech synthesis for voice response systems; audio compression for broadcasting, television and Internet applications; video compression, and image recognition and restoration. Researchers in this area are supported by the CRC for Advanced Automotive Technology and the Information Security Institute.

**Infrastructure**

Energy The provision of sustainable energy supplies is of critical importance to the future of Australia, and this research involves experimental and theoretical research on solar cells, wind energy and solar thermal energy generation as well as fundamental research on energy supply networks, including distributed generation technology and energy policy. This research is conducted in collaboration with energy utilities and the Queensland Sustainable Energy Industry Development Group, and is a key component of the Institute for Sustainable Resources.

**Water**

The supply of fresh water and the quality of water supply are key issues facing Australia over the next 20 years, and this research looks at water re-use technology and policy. The research is practically focused with significant collaboration with local government and industry in South-East Queensland. Research in the Faculty links strongly with research in the Faculties through the i-water initiative of the Institute for Sustainable Resources.

**Transport**

The aim of this program is to focus research effort in the freight and logistics area with an emphasis on multimodal transportation systems. The main research areas include freight vehicle impacts, freight and logistics e-business systems, freight corridor evaluation analysis, ITS applications in freight and logistics, emissions modeling, transit evaluation methodologies, rail track modelling and analysis, and intermodal terminal planning and operations.

**Housing and Construction**

This research makes contributions to improved practice in the specific areas of housing, urban planning, international project management, construction and property performance, construction information and procurement technologies, and property market choice, investments, constraints opportunities, internationalisation, taxation, lifecycles, risk and culture. Much of the research in this area is supported by the Australian Housing and Urban Research Institute, the CRC for Construction Innovation and the Construction Industry Institute of Australia.

**Cooperative Research Centres (CRCs)**

The faculty is also involved in the following Cooperative Research Centres (CRC) and externally-funded collaborative research ventures:

**CRC for Construction Innovation**

The Centre aims to create and commercially exploit tools, technologies and management systems to deliver innovative constructed assets of financial, environmental and social benefit to the community. The centre combines basic research with strategic research and development in five related programs: virtual environments for lifecycle design and construction; construction project delivery strategies; environmental sustainability; integrated design and construction support systems; and management, adaptability and the future of built assets.

**CRC for Integrated Engineering Asset Management**

The CRC for Integrated Engineering Asset Management (CIEAM) delivers capabilities and technologies for integrated and sustainable asset management to a wide range of Australian industries in both the private and the public sectors. CIEAM consists of leading edge researchers and practitioners focused on industry directed R&D and education in the management of Australia's major engineering assets in the Defence, Utilities (power, water and gas), Process and extraction, and Transportation industries. CIEAM involves five research program areas. These are Models and decision systems, Advanced sen-
sors, Intelligent diagnostics and life prediction, Systems integration and IT, and Strategic human dimensions.

**CRC for Railway Engineering and Technologies**
The Centre aims through research to develop an internationally competitive, efficient and sustainable rail industry and to facilitate the development of an Australian export industry in railway technologies. Benefits will flow in terms of improved rail efficiency and infrastructure capacity, energy savings, reduced maintenance cost, and better asset utilisation. The main research areas include 'Smart train' intelligent systems; innovative/automated maintenance and upgrading technologies; optimal traffic control and scheduling; IT systems and standards for rail management; new materials, systems and components for railways; and industry skills development (education and training).

**CRC for Advanced Automotive Technology**
The CRC for Advanced Automotive Technology brings the automotive industry together with researchers in design, engineering and manufacturing to enhance the industry's international competitiveness. The aim of the research is to reduce the concept-to-product cycle times; improve manufacturing flexibility and efficiency; and the industry's international competitiveness. The aim of the research is to reduce the concept-to-product cycle times; improve manufacturing flexibility and efficiency; and the development of new material systems to meet the challenges of weight reduction, increased safety and greater functionality. The CRC will also improve vehicle safety through improvements in the crash worthiness of vehicles and new intelligent products/systems that provide increased comfort, performance and entertainment.

**Australian Housing and Urban Institute (AHURI)**
The Institute is a consortium of CSIRO Division of Building, Construction and Engineering; Queensland University of Technology; University of Queensland; Monash University; and Royal Melbourne Institute of Technology (RMIT). Its broad objective is to conduct research into issues in housing and urban fields in Australia and the Asia-Pacific region.

**Centre for Subtropical Design**
The Centre for Subtropical Design is collaboration between QUT, the Brisbane City Council and the Office of Urban Management, focussing on sustainable development of the subtropical urban environment. This Centre will promote high quality planning, design and development that responds to the City of Brisbane and South-East Queensland region's cultural, landscape, and climatic characteristics in ways that are sustainable and enhance the enjoyment of the region's subtropical lifestyle.

**Queensland Sustainable Energy Industry Development Group**
This group, formed in 2004 by QUT, the University of Queensland, Central Queensland University, Stanwell Corporation, CS Energy, and the Queensland Conservation Council, is continuing the work of the Australian CRC for Renewable Energy in areas of energy policy, training for the sustainable energy industry (supply and use), and renewable energy technology.

**Australian Centre for Tropical Crops and Biocommodities**
This Centre is the research division of the former Sugar Research Institute which transferred to QUT in July 2005. This Centre conducts research into the post-harvest processing and economics of sugar cane and has a particular expertise in milling technology (mechanical engineering and computational fluid dynamics modelling), separation science, and total biomass utilisation, in particular the transformation of sugar cane waste into biofuels (ethanol) and biopolymers to provide renewable fuels and industrial chemicals.

**Australian Research Centre for Aerospace Automation (ARCAA)**
ARCAA was formed in 2006 as collaboration between CSIRO and QUT to promote the safe and efficient operation of Unmanned Vehicles in controlled airspace. The Centre is constructing a new research facility at Brisbane Airport where major programs on UAV navigation and collision avoidance, risk management and applications of UAV technology in areas as diverse as border security, vegetation management, and disaster recovery will be conducted.

**Medical Engineering Research Facility (MERF)**
The Medical Engineering Research Facility is a new $10 million facility being constructed at the Prince Charles Hospital to provide state-of-the-art research and education facilities in orthopaedic research.

**Australasian CRC for Interaction Design (ACID)**
ACID is the leader in research and development in interaction design – using new technologies to work, live, learn and play. It builds on the strengths of more than 20 educational and corporate partners and is active internationally through new industry and university partnerships. ACID’s research themes – Virtual Heritage, Smart Living, Digital Media, Multi-User Environments and New Models of Advertising for Interactive Television – build connections between consumers and industry, content and application developers, software system developers and hardware manufacturers.

**Construction Industry Institute of Australia (CIIA)**
The Construction Industry Institute, Australia (CIIA) gives members the opportunity to access worldwide leading edge research and implement outcomes before others. Its vision is to create national wealth through innovative design, construction, engineering and management of sustainable built assets. The CIIA's mission is to undertake applied research, implementation and research training in the engineering, construction and property industries for the purpose of advancing knowledge, creating national wealth and providing a competitive advantage to Australian business in the national and international market place. The CIIA believes that wealth creation and industry improvement can best be achieved by collaboration between all parties involved in the project delivery process. Applied research projects are used as the bridge to bring together the participant, particularly clients and service providers, to generate creative ideas and undertake leading edge research that results in major breakthroughs which add significant value to members and Australian industry. The CIIA is part of an international network of similar institutes based at universities in the United States, Europe and Australia and more recently, in South East Asia. The goal of these Institutes is to undertake research to create value and stimulate industry change, and create a work environment that fosters innovation. They achieve this by bringing together researchers and industry participants in multi-disciplinary task forces focussing on programs of applied research and by providing their members with a forum for local, regional and international debate. The Institutes also collaborate with a wide range of sister research organisations across the world.

- Notes for BEE undergraduate courses
Course progression
It is important that students follow as normal a progression through their courses as possible. Units should be taken in an orderly sequence as set out in published course structures. Units failed should be picked up in the next semester that they are offered. Prerequisite units must normally be passed before a student may proceed to a further unit which has the prerequisite so specified. The course coordinator should be consulted regarding variations from the course structure. Students who have failed units, or have doubts about having the necessary background to proceed, should seek the advice of the course coordinator.

Limit of Grades of 3
Students enrolled in courses within the Faculty of Built Environment and Engineering can achieve a maximum of 12.5% of total course credit points at a grade of 3. In practice this means that students enrolled in a 4 year course can achieve a maximum of 4 grades of 3. If a student exceeds the limit of grades of 3 they must consult with their course coordinator or subject area coordinator to determine what action needs to be taken to meet the requirements for graduation.

Supplementary assessment
Students may be granted up to two supplementary assessments in the first 96 credit points of study, for coursework programs of three or more years full-time duration or equivalent; and one supplementary assessment in the final 48 credit points for coursework programs of less than three years full-time duration or equivalent.

Eligibility for supplementary assessment will be determined by the Dean and will normally only be considered when a student receives a grade of 2 in a unit where a 3 is required for course completion or a grade of 3 in a unit where a 4 is required for course completion. The only grade that will be recorded following supplementary assessment is S3 (pass supplementary) and S2 (fail supplementary).

Awards with honours
Honours may be awarded to graduands of the Bachelor of Architecture, the four-year single degree and five-year double degree Bachelor of Engineering and Surveying courses, the four-year Bachelor of Applied Science courses in Construction Management and Quantity Surveying, and the Bachelor of Property Economics. First class honours, second class honours division A and second class honours division B may be awarded. Candidates for a degree with distinction must fulfill the requirements for a pass degree and achieve a standard of proficiency in all course units as may from time to time be determined by the Faculty Academic Board and approved by the University Academic Board.

Eligibility for ‘With Distinction’
See Eligibility for honours.

With Distinction based on grade point average
The Built Environment and Engineering Academic Board has resolved that awards with distinction will be based on grades achieved by students throughout the whole of their course as determined by the grade point average calculation.

The GPA calculation includes all attempts at units which are awarded a numeric grade, or the result ‘Withdrawn — Failure’ (which is converted to a grade of 1).

Students obtaining a GPA of 6.0 or greater will normally qualify for the award of first class honours. Students obtaining a GPA of 5.5 to 5.99 will normally qualify for the award of second class honours division A. Students obtaining a GPA of 5.0 to 5.49 will normally qualify for the award of second class honours division B.

Students enrolled in double degrees must obtain the required GPA in the Engineering degree component to be eligible for Honours.

Use of calculators in examinations
Restrictions apply on the use of calculators in examinations. Students should consult their unit coordinator for details.

Field trips
Attendance at field trips or field projects in engineering and surveying/mapping courses is compulsory.

Personal Protection Equipment (PPE) Policy
Protective equipment refers to safety glasses/goggles, hearing protection, safety boots, gloves and similar items. While all care is taken to reduce the risks to which students are exposed, protective equipment will be required to be worn in some practical sessions and field excursions. Students are required to wear PPE where and
when it has been made clear that it is needed. Students are required to provide certain PPE as indicated by each school within the Faculty.

Students enrolled in units specified by the Faculty of Built Environment and Engineering will be required to wear safety shoes for most laboratory practicals and/or field trips. Students not wearing appropriate safety shoes on these occasions will be barred from (i) participating in activities in these units, and (ii) submitting any assessment associated with these activities. Students must provide their own safety shoes, safety glasses/goggles and hearing protection equipment.

All students are bound by the Queensland Workplace Health and Safety Act. In this respect, students carrying out their final year projects will be required to do a risk assessment of such projects, including risk management and control to prevent incident and accidents.

**Industrial experience for Engineering and Surveying/Mapping courses (students who commenced prior to 2006)**

Industrial Experience forms part of the requirements of engineering and surveying degree courses, in order to provide a realistic background for formal academic studies and to ensure that students become effectively balanced in their professional development. For engineering students, it is a requirement of the Institution of Engineers, Australia, for graduate membership. Industrial Experience is usually undertaken during the long vacation or the mid-semester recess as an employee of a private firm, government agency or local authority, but can also be accumulated during part-time/full-time employment.

Candidates must submit a report no later than the fourth week of the semester, following each period of Industrial Experience. The report is to be written in the required format describing work carried out during the period of Industrial Experience. An Industrial Experience Record Form signed by the employer is also to be submitted. Industrial Experience Record Forms are available from www.bee.qut.edu.au/students/services.

A candidate for the degree of Bachelor of Technology (Civil) must obtain at least 45 days of industrial experience in an engineering environment approved by the course coordinator.

A candidate for the degree of Bachelor of Technology (Mechanical) must obtain at least 50 days of industrial experience approved by the course coordinator.

Engineering students must obtain at least 60 days of Industrial Experience in an engineering environment approved by the course coordinator.

Bachelor of Surveying students must obtain at least 90 days of industrial experience in a surveying environment approved by the course coordinator.

Bachelor of Engineering (Aerospace Avionics) students are required to obtain 10 days specialist experience in the avionics industry. This is in addition to the 60 days industrial experience requirement.

Industrial Experience information can be obtained from the Student Services Officer, Industrial Experience, on Level 3, D Block, Gardens Point campus.

**Enrolment in industrial experience**

Surveying/mapping and Engineering students should not formally enrol in industrial experience.

**Industrial experience requirements for Bachelor of Architecture (AR48) course**

A Bachelor of Architecture student must be engaged in approved employment for at least 72 recognised weeks within the last 2-3 years of the course (ADB796 Practice Experience B). Prior to entering Year 4 Semester 1 students enrolled in the full-time course structure, must have completed 20 recognised weeks of approved employment which will be credited to the requirements of Practice Experience B. Students enrolled in the flexible full-time course structure must be engaged in approved employment for at least 48 recognised weeks within the first 3 years of the course (ADB795 Practice Experience A). Flexible full-time students enrol in ADB795 Practice Experience A in second semester of third year. All students enrol in ADB796 Practice Experience B in the second semester of the final year of the course.

Approved employment means working under the direction of an architect who is registered at the place of practice where the experience is obtained.

A recognised week is 5 days actually worked (7.6 hrs per day with a maximum of 42 hours per week). The minimum period with one employer is 8 weeks.

Allied experience can be obtained in approved areas allied to architecture (eg, Civil Engineering, Interior Design, Industrial Design, Quantity Surveying, Construction Management, Town Planning, Landscape Architecture, Building, etc). The maximum period of allied experience is 12 recognised weeks in ADB795 and 18 recognised weeks in ADB796.

Prior work experience under the direction of a registered architect before enrolment in the course is accepted up to a maximum of 24 weeks in ADB795 and a maximum of 36 weeks in ADB796.

Approved employment during leave of absence is accepted (a) in ADB795 up to a maximum of 24 recognised weeks and (b) in ADB796 after completion of at least one semester of fourth year and prior approval of the course coordinator up to a maximum of 36 recognised weeks.

Reporting each month is required on the electronic logbook. Students without access to the electronic logbook system, are to contact the course coordinator who will establish the reporting arrangements for their work experience. The electronic logbook automatically produces the AACA log-sheets required in ADB796.

Credited employment period only counts once (eg, period required for ADB796 cannot also be used for the 20 week period for entry in the last 2 years full-time mode). The employment period of ADB795 for students admitted directly into the third year of the flexible full-time course is 24 recognised weeks and the employment period of ADB796 for students admitted directly into the last year of the course is one year (52 recognised weeks).

**Types of experience required:**

- ADB795 Practice Experience A
- At least 50% of time in undertaking design and/or documentation duties.
- ADB796 Practice Experience B
- At least 50% of time in undertaking design and documentation duties.
- Provide the following experiences on the electronic AACA log sheets:
Industrial experience requirements for DE40 Bachelor of Design (Architectural Studies) (Students who commenced 2006 and after)

Graduates of the DE40 Bachelor of Design (Architectural Studies) will be subject to a GPA requirement to qualify for entry to the postgraduate course DE80 Master of Architecture. Graduates who successfully complete both degrees (DE40 and DE80) will meet the academic requirements for membership of the Royal Australian Institute of Architects (RAIA). Successful graduates of both degrees (DE40 and DE80) who have completed a minimum of 2 years’ practical experience, of which at least one year is postgraduate experience, will be eligible to undertake the Architectural Practice Examination, which (if successful) will enable the graduate to be eligible for registration with any Board of Architects in Australia.

Graduates of the DE40 Bachelor of Design (Architectural Studies) will also meet the academic (technical) requirement for the Building Design Licence with the Queensland Building Services Authority.

Types of experience required: Students will have the opportunity of undertaking a minor or major in Work Integrated Learning (WIL), which will count towards their practical experience.

Engineering students must obtain at least 60 days of Industrial Experience (WIL) in an engineering environment approved by the course coordinator.

Bachelor of Spatial Science students must obtain at least 90 days of industrial experience (WIL) in a surveying environment approved by the course coordinator.

Bachelor of Engineering (Aerospace Avionics) students are required to obtain 10 days specialist experience in the avionics industry. This is in addition to the 60 days industrial experience (WIL) requirement.

Notes for BEE postgraduate courses

Course progression
It is important that students follow as normal a progression through their courses as possible. Units should be taken in an orderly sequence as set out in published course structures. Units failed should be picked up in the next semester they are offered. Prerequisite units must normally be passed before a student may proceed to a further unit which has the prerequisite so specified. The course coordinator should be consulted regarding variations from the course structure. This is considered to be a major concession. Students who have failed units or have doubts about having the necessary background to proceed should seek the advice of the course coordinator.

Supplementary assessment
Students may be granted one supplementary assessment in the final 48 credit points for coursework programs of less than three years full-time duration or equivalent

Eligibility for supplementary assessment will be determined by the Dean and will normally only be considered when a student receives a grade of 2 in a unit where a 3 is required for course completion or a grade of 3 in a unit where a 4 is required for course completion. The only grade that will be recorded following supplementary assessment is S3 (pass supplementary) and S2 (fail supplementary).

Awards with distinction
Awards ‘with distinction’ may be awarded to graduands of graduate diploma courses undertaken in the Faculty of Built Environment and Engineering. Candidates for a graduate diploma ‘with distinction’ must fulfill the requirements for a pass degree and achieve a standard of proficiency in all course units as may from time to time be determined by the Faculty Academic Board and approved by the University Academic Board.

Eligibility for ‘With Distinction’
Eligibility for awards ‘with distinction’ is not affected by the time taken to complete a course. However, to be eligible for such an award, a graduand must have completed the course within the maximum number of calendar years specified in the policy on time limits for completion of courses (see student rules).

Personal Protection Equipment (PPE) Policy
Protective equipment refers to safety glasses/goggles, hearing protection, safety boots, gloves and similar items. While all care is taken to reduce the risks to which students are exposed, protective equipment will be required to be worn in some practical sessions and field excursions. Students are required to wear PPE where and when it has been made clear that it is needed. Students are required to provide certain PPE as indicated by each school within the Faculty.

Students enrolled in units specified by the faculty of Built Environment and Engineering will be required to wear safety shoes for most laboratory practicals and/or field trips. Students not wearing appropriate safety shoes on these occasions will be barred from (i) participating in activities in these units, and (ii) submitting any assessment associated with these activities. Students must provide their own safety shoes, safety glasses/goggles and hearing protection equipment.
Bachelor of Architecture (AR48)
Year offered: 2008
Admissions: No
CRICOS code: 052308E
Course duration (full-time): 5 years full-time
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,492
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412372; Dfee: 412376
Past rank cut-off: 90. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.
OP Guarantee: Yes
Total credit points: 480
Standard credit points per full-time semester: 48
Course coordinator: Ms Sheona Thomson
Discipline coordinator: Mr Paul Sanders
Campus: Gardens Point

Additional Admission Information
The AR48 Bachelor of Architecture course has been replaced by DE40 Bachelor of Design (Architectural Studies) from 2006 onwards. There will be no intake into the AR48 course in 2008 with the exception of QTAC applicants commencing their studies with at least 240 credit points of advanced standing (academic credit); i.e. those students who will be starting in the fourth year of the program.

If offered a place you are not required to lodge an academic credit form, as academic credit will be awarded by QUT before the census date of your first teaching period.

After being awarded this credit and if you wish to seek for additional academic credit, you are then required to lodge an Application for Academic Credit form for that additional credit by the due date and subject QUT rules.

International Students Course Structure - 6 years
International students enrol in the full time course structure for years 1 - 3 and the flexible full time structure for years 4 - 6. Prior to entering year 4, students may seek approval from the course coordinator to enrol in the full time course structure allowing them to complete in 5 years. To be eligible for the full time course structure (years 4-5), students must have completed 20 recognised weeks of approved employment which will be credited to the requirements of the unit Practical Experience B.

Early Exit Option
Students may elect to complete their studies after three years full-time (288 credit points). Students who select this option will graduate with The Bachelor of Built Environment (Architectural Studies), which is a pre-professional degree in architecture.

Professional Recognition
Graduates of the Bachelor of Architecture degree meet the academic requirements for membership of the Royal Australian Institute of Architects and, following one year of post-graduate architectural experience, are eligible to undertake the registration examinations of the Board of Architects of Queensland.

Special course requirements
A Bachelor of Architecture student must be engaged in approved employment for at least 72 recognised weeks within the last 2-3 years of the course (ADB796 Practice Experience B). Prior to entering Year 4 Semester 1 students enrolled in the full time course structure, must have completed 20 recognised weeks of approved employment which will be credited to the requirements of Practice Experience B. Students enrolled in the flexible full-time course structure must be engaged in approved employment for at least 48 recognised weeks within the first 3 years of the course (ADB795 Practice Experience A).

Further Information
Phone +61 7 3864 4074, Fax +61 7 3864 5280, email: bee.enquiries@qut.com

Deferment
QUT’s deferment policy does not apply to this course.

Course structure - full-time

<table>
<thead>
<tr>
<th>Year 4 - Semester 1</th>
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</thead>
<tbody>
<tr>
<td>ADB007 Architectural Design 7</td>
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<tr>
<td>ADB013 Contextual Studies 3</td>
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<tr>
<td>ADB025 Technology and Science 5</td>
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<tr>
<th>Year 4 - Semester 2</th>
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</thead>
<tbody>
<tr>
<td>ADB008 Architectural Design 8</td>
</tr>
<tr>
<td>ADB026 Technology and Science 6</td>
</tr>
<tr>
<td>ADB031 Professional Studies 1</td>
</tr>
<tr>
<td>ADB051 Architectural Research 1</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 - Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADB009 Architectural Design 9</td>
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<tr>
<td>ADB052 Architectural Research 2</td>
</tr>
<tr>
<td>ADB067 Elective Architectural Applications</td>
</tr>
<tr>
<td>ADB932 Professional Studies 2</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADB014 Contextual Studies 4</td>
</tr>
<tr>
<td>ADB033 Professional Studies 3</td>
</tr>
</tbody>
</table>
ADB053 Architectural Project
ADB796-1 Practice Experience B
ADB796-2 Practice Experience B

Special Course Notes
1 Students must complete all units in the Years 1, 2 & 3 prior to enrolling in any unit in the Year 4 schedule of AR48. The course coordinator may consider cases of special hardship.
2 Students must meet pre-requisites in all subjects.
3 Students who have not completed 20 recognised weeks of approved employment at the end of year 3 should consult with the course coordinator regarding their 4th year enrolment program.
4 Late penalties for late assignments apply.
5 Course will involve compulsory field work within some units.

Course structure - flexible full-time

Year 4 - Semester 1
ADB007 Architectural Design 7
ADB013 Contextual Studies 3
ADB025 Technology and Science 5

Year 4 - Semester 2
ADB008 Architectural Design 8
ADB026 Technology and Science 6
ADB031 Professional Studies 1

Year 5 - Semester 1
ADB009 Architectural Design 9
ADB932 Professional Studies 2

Year 5 - Semester 2
ADB014 Contextual Studies 4
ADB051 Architectural Research 1
Elective

Year 6 - Semester 1
ADB052 Architectural Research 2
ADB067 Elective Architectural Applications
Elective

Year 6 - Semester 2
ADB033 Professional Studies 3
ADB053 Architectural Project
ADB796-1 Practice Experience B
ADB796-2 Practice Experience B

Special Course Notes
1 Students must complete all units in the Years 1, 2 and 3 prior to enrolling in any unit in the Year 4 schedule of AR48. The course coordinator may consider cases of special hardship.
2 Students must meet pre-requisites in all subjects.
3 Penalties for late assignments apply.
4 Course will involve compulsory field work within some units.
5 Students currently enrolled in BN31 cannot transfer to AR48 in years 2 and 3.
6 Acceptance into the flexible full-time mode requires approval of the course coordinator and by providing evidence of employment in an Architects office.

Potential Careers:
Architect.
Graduate Diploma in Industrial Design (AR61)

Year offered: 2008
Admissions: Yes
CRICOS code: 003479C
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): Commonwealth Supported Place (subject to annual review)
Domestic fees (indicative): 2008: CSP $7,252
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)
Domestic Entry: This course is open to continuing BN31 Graduates only. NO NEW OFFERS WILL BE MADE AFTER FEBRUARY 2008.
International Entry: This course is open to continuing BN31 Graduates only. NO NEW OFFERS WILL BE MADE AFTER FEBRUARY 2008.
Total credit points: 96
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Jay Yang (Please refer all course enquiries to Course Leader.)
Discipline coordinator: Dr Kathi Holt-Damant (Course Leader)
Campus: Gardens Point

Entry Requirements
A relevant degree or diploma from a recognised tertiary institution, or professional recognition through an equivalent course of study or examination.

Overview
During the course you are encouraged to develop your knowledge and expertise in design research, ergonomics, decision making, new product development, and CAD. The course consolidates skills and knowledge that encourages leadership.

Professional Recognition
The Graduate Diploma in Industrial Design has been recognised by the Design Institute of Australia (DIA). Graduates are eligible for associate membership. The QUT program is an educational member of the International Council of the Society of Industrial Design (ICSID).

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

SPECIAL NOTE
Any BN31 (IndDes) graduate (from 1997-2007) can apply for the final offering (Sem 1 2008) of the Graduate Diploma in Industrial Design.

Full-time Course Structure

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td>ADP207</td>
<td>ADP247</td>
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<tr>
<td>ADP217</td>
<td>ADP218</td>
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<tr>
<td>ADP247</td>
<td>ADP217</td>
</tr>
<tr>
<td>ADP267</td>
<td>ADP267</td>
</tr>
<tr>
<td>ADP268</td>
<td>ADP269</td>
</tr>
<tr>
<td>ADP943</td>
<td>Elective 3</td>
</tr>
<tr>
<td>ADP943</td>
<td>Elective 3</td>
</tr>
</tbody>
</table>

Part-time Course Structure - Year 1 - Semester 1

<table>
<thead>
<tr>
<th>Year 1 - Semester 2</th>
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</thead>
<tbody>
<tr>
<td>ADP207</td>
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<tr>
<td>ADP207</td>
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<tr>
<td>ADP218</td>
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<tr>
<td>ADP247</td>
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<td>ADP217</td>
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<tr>
<td>ADP267</td>
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<tr>
<td>ADP269</td>
</tr>
<tr>
<td>Elective 3</td>
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<tr>
<td>Elective 3</td>
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</table>

Year 2 - Semester 1

<table>
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<tr>
<th>Year 2 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADP268</td>
</tr>
<tr>
<td>ADP269</td>
</tr>
</tbody>
</table>

Potential Careers:
Industrial Designer.
Graduate Diploma in Interior Design (AR62)

Year offered: 2008
Admissions: Yes
CRICOS code: 006361D
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): Commonwealth Supported Place (subject to annual review)
Domestic fees (indicative): 2008: CSP $7,252
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)
Domestic Entry: This course is open to continuing BN31 Graduates only. NO NEW OFFERS WILL BE MADE AFTER FEBRUARY 2008.
International Entry: This course is open to continuing BN31 Graduates only. NO NEW OFFERS WILL BE MADE AFTER FEBRUARY 2008.
Total credit points: 96
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Dr Kathi Holt-Damant (Course Leader)
Campus: Gardens Point

Entry Requirements
A degree or diploma in interior design or in a relevant discipline from a recognised tertiary institution; or professional recognition through an equivalent course of study or examination.

Overview
This Graduate Diploma consolidates your research skills and encourages you to rigorously explore and identify issues relating to the function and quality of the interior environment. You develop specialist skills and apply them to produce interiors that are sensitive to the various demands of the client, the user and society as a whole.

Professional Recognition
The Graduate Diploma in Interior Design is recognised by the Design Institute of Australia (DIA).

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

SPECIAL NOTE
Any BN31 (IntDes) graduate (from 1997-2007) can apply for the final offering (Sem 1 2008) of the Graduate Diploma in Interior Design.

Course Structure

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
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</thead>
<tbody>
<tr>
<td>ADP107 Interior Design 7</td>
<td>ADP108 Interior Design 8</td>
</tr>
<tr>
<td>ADP114 Professional Studies 1</td>
<td>ADP156 Interior as a Construct 2</td>
</tr>
<tr>
<td>ADP155 Interior as a Construct 1</td>
<td>ADP162 Interior Research 2</td>
</tr>
<tr>
<td>ADP161 Interior Research 1</td>
<td>ADP932 Professional Studies 2</td>
</tr>
</tbody>
</table>

Part-time Course Structure

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
<th>Year 1 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADP114 Professional Studies 1</td>
<td>ADP932 Professional Studies 2</td>
</tr>
<tr>
<td>ADP155 Interior as a Construct 1</td>
<td>ADP156 Interior as a Construct 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 - Semester 1</th>
<th>Year 2 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADP107 Interior Design 7</td>
<td>ADP108 Interior Design 8</td>
</tr>
<tr>
<td>ADP161 Interior Research 1</td>
<td>ADP162 Interior Research 2</td>
</tr>
</tbody>
</table>
Bachelor of Built Environment
(Architectural Studies) (BN31)

Year offered: 2008
Admissions: No
CRICOS code: 003507D
Course duration (full-time): 3 years
Domestic fees (per credit point): Commonwealth Supported Place; Full Fee Tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full Tuition Fee $15,936 CSP $6,638
International Entry: February
OP Guarantee: Yes
Assumed knowledge: English (4 SA)
Preparatory studies: ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email sbs.enquiries@qut.edu.au
Total credit points: 288
Standard credit points per full-time semester: 48
Course coordinator: Ms Sheona Thomson
 Discipline coordinator: Mr Paul Sanders
Campus: Gardens Point

Further Information
Phone +61 7 3864 4074, Fax +61 7 3864 5280, email: bee.enquiries@qut.com
Bachelor of Built Environment (Industrial Design) (BN31)

Year offered: 2008
Admissions: No
CRICOS code: 003507D
Course duration (full-time): 3 years

Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,638
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412382; Dfee: 412386
Past rank cut-off: 83. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.
OP Guarantee: Yes
Total credit points: 288
Standard credit points per full-time semester: 48
Course coordinator: Ms Sheona Thomson
Discipline coordinator: Mr Andrew Scott
Campus: Gardens Point

Other Majors
See also entries for the following majors in this course: Interior Design, Landscape Architecture, and Urban and Regional Planning.

Career Outcomes
Industrial designers create and produce commercial and industrial products to improve peoples' 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 useability, costs, materials, technology or environment. They research 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.

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

Professional Recognition
Graduates of the Bachelor of Built Environment (Industrial Design) who go on to complete the Graduate Diploma in Industrial Design are eligible for associate membership of the Design Institute of Australia. QUT is an Educational Member of the International Council of Societies of Industrial Design (ICSID).

Minors
Subject to the approval of the course coordinator, students may be able to choose a minor area of study. A minor is a collection of four units from the one study area, that totals 48 credit points. This will not affect the total number of credit points required for course completion. Students may choose from the list of minors, available from the office of the Faculty of Built Environment and Engineering.

Further information
Phone +61 7 3864 4074, Fax +61 7 3864 5280, email: bee.enquiries@qut.com

Potential Careers:
Industrial Designer.
Bachelor of Built Environment (Interior Design) (BN31)

Year offered: 2008
Admissions: No
CRICOS code: 003507D
Course duration (full-time): 3 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,360; CSP $6,638
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412362; Dfee: 412366
Past rank cut-off: 90. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.
OP Guarantee: Yes
Total credit points: 288
Standard credit points per full-time semester: 48
Course coordinator: Ms Sheona Thomson
Discipline coordinator: Ms Petina Rock and Mr Mark Taylor
Campus: Gardens Point

Other Majors
See also entries for the following majors in this course: Industrial Design, Landscape Architecture, and Urban and Regional Planning.

Career Outcomes
Interior Designers plan and execute 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 practice in South East Asia and bid competitively for international commissions.

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

Professional Recognition
Successful completion of the Bachelor of Built Environment (Interior Design) satisfies the requirements for entry into the Graduate Diploma in Interior Design. Together the courses are recognised by the Design Institute of Australia as meeting the basic requirements for professional practice.

Minors
Subject to the approval of the course coordinator, students may be able to choose a minor area of study. A minor is a collection of four units from the one study area, that totals 48 credit points. This will not affect the total number of credit points required for course completion. Students may choose from the list of minors, available from the office of the Faculty of Built Environment and Engineering.

For further information
Phone +61 7 3864 4074, Fax +61 7 3864 5280, email: bee.enquiries@qut.com

Potential Careers:
Interior Designer.
Bachelor of Built Environment (Landscape Architecture) (BN31)

Year offered: 2008
Admissions: No
CRICOS code: 003507D
Course duration (full-time): 3 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,638
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412342; Dfee: 412346
Past rank cut-off: 80. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.
OP Guarantee: Yes
Total credit points: 288
Standard credit points per full-time semester: 48
Course coordinator: Ms Sheona Thomson
Discipline coordinator: Dr Jeannie Sim
Campus: Gardens Point

Other Majors
See also entries for the following majors in this course: Interior Design, Industrial Design, and Urban and Regional Planning.

Career Outcomes
Landscape architecture is predominantly a young profession with an increasing number of female practitioners. Sixty per cent of the profession is employed in private consultancies 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.

Overview
This course provides a broad based education for those seeking a career in landscape architecture. Landscape design forms the core of the course, and theory and problem-solving techniques enhance the development of students' capabilities.

Professional Recognition
Successful performance in the Bachelor of Built Environment (Landscape Architecture) enables students to gain entry to the Graduate Diploma/Master courses. The Graduate Diploma in Landscape Architecture is the only course of its kind in Queensland, and is accredited by the Australian Institute of Landscape Architects (AILA). Graduates from the Graduate Diploma or Master of Landscape Architecture are recognised in New Zealand and Hong Kong and overseas generally through their AILA membership.

Minors
Subject to the approval of the course coordinator, students may be able to choose a minor area of study. A minor is a collection of four units from the one study area, that totals 48 credit points. This will not affect the total number of credit points required for course completion. Students may choose from the list of minors, available from the office of the Faculty of Built Environment and Engineering.

Further information
Phone +61 7 3864 4074, Fax +61 7 3864 5280, email: bee.enquiries@qut.com

Potential Careers:
Landscape Architect.
Bachelor of Built Environment (Urban and Regional Planning) (BN31)

Year offered: 2008
Admissions: No
CRICOS code: 003507D
Course duration (full-time): 3 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,638
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412352; Dee: 412356
Past rank cut-off: 77. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.
OP Guarantee: Yes
Total credit points: 288
Standard credit points per full-time semester: 48
Course coordinator: Dr John Hayes
Discipline coordinator: Mr Paul Donehue
Campus: Gardens Point

Other Majors
See also entries for the following majors in this course: Interior Design, Industrial Design, and Landscape Architecture.

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 can found in state and local government departments, with private sector planning consultants and land development enterprises. Graduates can build careers in urban design, community health and welfare, housing, transport, and strategic land-use planning, and land and resource development.

Overview
Urban and regional planning involves environmental design, map and aerial photo interpretation, human environment, land use generation, population and urban studies, economics of town planning, employment and industry, land development, demography and housing, and provision of community facilities.

Professional Recognition
Successful completion of the Bachelor of Built Environment (Urban and Regional Planning) enables students to gain entry to the Graduate Diploma/Masters in Urban and Regional Planning, which are both fully accredited by the Planning Institute of Australia (PIA).

Minors

Subject to the approval of the course coordinator, students may be able to choose a minor area of study. A minor is a collection of four units from the another study area, that totals 48 credit points. This will not affect the total number of credit points required for course completion. Students may choose from the list of minors, available from the office of the Faculty of Built Environment and Engineering.

Further Information
Phone +61 7 3864 2852 Fax +61 7 3864 1515
email: bee.enquiries@qut.com

Potential Careers:
Urban and Regional Planner, Urban Designer.
Master of Applied Science (Research)  
(BN71)  
Year offered: 2008  
Admissions: Yes  
CRICOS code: 003462A  
Course duration (full-time): 1 year (minimum), 2 years (maximum)  
Course duration (part-time): 2 years (minimum), 4 years (maximum)  
Domestic fees (per credit point): RTS/RTA: 2008 Full fee tuition $135 per credit point (exceeded max. entitlement) (subject to annual review)  
Domestic fees (indicative): 2008: $12,960 (exceeded max entitlements)  
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)  
Domestic Entry: At any time  
International Entry: At any time  
Campus: Gardens Point  

Entry Requirements  
A four-year degree in an appropriate discipline with Honours or equivalent qualification or a graduate diploma or masters degree in an appropriate discipline with a minimum grade point average of 5 with relevant experience or professional experience and/or other qualifications.  

Overview  
From this research degree you acquire advanced knowledge of applied science research methods, applied to research problems in the built environment. As well as mastering relevant techniques, you can expect to develop high-level skills in investigation and critical thinking and extensive knowledge in a specialist area. Specialisations are available in Architecture, Interior Design, Industrial Design, Construction Management, Quantity Surveying, Property Economics, Project Management, Planning, Landscape Architecture and Surveying. Our Faculty staff are available to discuss your application with you. You are encouraged to approach them early in the development of the research proposal that forms part of your application. Master by Research studies normally include:  
* assessed coursework  
* participation in university scholarly activities such as research seminars, teaching and publication  
* regular meetings with supervisors  
* a program of supervised research and investigation  
* preparation of a thesis.  

Fees  
Australian students enrolling after August 31 2000 in a higher degree by research are subject to the conditions of the Commonwealth Government’s Research Training Scheme (RTS). Research Students who enrol at QUT will be awarded an RTS place, which is funded by the Commonwealth, or a QUT Research Training Award Scheme (RTA) place, which is a fee remission scholarship. Research Masters students are entitled to two years full-time equivalent study under these schemes, Students who exceed this entitlement may apply to QUT for an extension, however the University may charge fees for the period of the program which exceeds the student's entitlement. The University determines the fee level.  

HDR Director  
Professor Mahen Mahendran  
Phone: +61 7 3864 2543  
Fax: +61 7 3864 1515  

1 - General Conditions  
1.1 The Council of the Queensland University of Technology was established in 1989 under the Queensland University of Technology Act 1988.  
1.2 The Council has power to approve recommendations from Faculty Academic Boards regarding the registration, supervision and examination of research degree candidates and to develop policy and procedures relating to research degrees is exercised through a University Research Committee which is a subcommittee of University Academic Board.  
1.3 University Research Committee has delegated responsibility for day-to-day administration of research masters degree courses to faculty academic boards. Academic boards shall report biannually to University Research Committee on progress made by Research Masters degree candidates.  
1.4 This program is administered by the Academic Board of the Faculty of Built Environment and Engineering through its Faculty Research Committee. The program is offered in Architecture, Civil Engineering, Construction Management, Electrical and Electronic Systems Engineering, Industrial Design, Interior Design, Landscape Architecture, Mechanical, Manufacturing Engineering and Medical Engineering, Property Economics, Planning and Surveying.  
1.5 In order to qualify for the award of the degree of Master of Applied Science (Research) or Master of Engineering a candidate must:  
* have completed the approved program involving advanced work under the supervision of a Thesis Panel prescribed by the Faculty Research Committee of the Built Environment and Engineering Academic Board  
* have submitted, and the Faculty Research Committee accepted a thesis, together with reports and/or documents where applicable, prepared under the supervision of the Thesis Panel  
* have completed such other work as may be prescribed by the Faculty Research Committee, and  
* submit to the Faculty Research Committee a declaration signed by the candidate that they have not been a candidate for another tertiary award without permission of the Faculty Research Committee.  

2 - Registration  
2.1 Applications shall be accepted subject to the availability of facilities and supervision.  
2.2 Applications may be lodged with the Registrar at any time.  
2.3 There is a six-month maximum period for domestic
students and nine months for international students, between acceptance by the Faculty Research Committee and enrolment by the candidate in the Master of Applied Science (Research) or Master of Engineering before the offer of admission to the program lapses. Candidates are required to complete an enrolment form each semester.

A Note Regarding Enrolment

The Faculty and Student Services are to be advised of any changes to name, address or other personal details. Application to vary any aspect of the candidacy must be made in writing directly to the Faculty Research Committee for Built Environment and Engineering and be endorsed by the principal supervisor.

2.4 The minimum academic qualifications for admission to the Master of Applied Science (Research) or Master of Engineering are:
* a four-year degree in an appropriate discipline in which the candidate has received at least second class Honours from the Queensland University of Technology, or
* a qualification judged equivalent by the Faculty Research Committee, or
* a grade point average of 5.0 or better in a graduate diploma program, in a relevant discipline, together with demonstrated potential for further study and/or evidence of professional standing, or
* a grade point average of 5.0 or better in a coursework masters degree program in a relevant discipline, together with demonstrated potential for further study and/or evidence of professional standing.

An applicant for the Master of Applied Science (Research) or Master of Engineering program without the minimum entry requirement may present a case for admission based on the submission of evidence of qualifications which demonstrate the applicant's capacity to pursue the course of study.

The case may be based on the following:
(a) three years professional experience in the general field in which the proposed work lies, or
(b) satisfactory completion of an appropriate Masters qualifying program including formal coursework and/or reading program in related fields stipulated by the Faculty Research Committee, or
(c) the submission of technical publications or other appropriate evidence which satisfies the Faculty Research Committee that advanced knowledge has been acquired in a branch of applied science relevant to the built environment or a division of engineering in which the applicant has worked as a professional practitioner in a position of responsibility. This knowledge should be relevant to the field of study proposed.

2.5 A candidate will be eligible to be registered as a graduate student if they are considered by Faculty Research Committee to meet the requirements for entry.

2.6 A candidate shall receive confirmed registration as a graduate student when they:
* have satisfied the requirements for admission and achieved by work and study a standard recognised by Faculty Research Committee, or
* have satisfied Faculty Research Committee that they are a suitable person to undertake the program, and
* have satisfied Faculty Research Committee that they can devote sufficient time to the research and study.

2.7 In considering an applicant for registration, the Faculty Research Committee shall, in addition to assessing the applicants suitability, be satisfied that:
* the proposed program is relevant to the aims and objectives of the University
* the proposed program has relevance to the needs of society or industry, and
* adequate resources are available to support the proposed program.

2.8 An application for registration should set out systematically and fully the candidates intended course of study including the following:
* a description of the area of study within which the candidates course lies
* a summary of the work to be undertaken, the proposed title of the thesis to be written, the aim of the proposed program, its background, the significance and possible application of the research program, and the research plan
* the location at which the work will be undertaken, the amount of time which will be devoted to it and the resources required
* details of academic qualifications and supporting evidence, including copies of results for each year of courses undertaken
* a brief account of industrial experience
* a list of publications
* sponsorship details
* statement of approval by Head of School and/or Postgraduate Research Coordinator, and
* any other relevant material.

2.9 The program is offered on a full-time or a part-time basis and may be undertaken externally. Part-time students normally will be employed in some professional capacity during the day and carry out their research projects on a part-time basis at QUT, in their place of employment or in a sponsoring organisation.

2.10 Full-time students may be on a scholarship from industry or QUT, and may carry out their research at QUT or in a sponsoring organisation. Normally full-time students would be expected to work on their research projects at QUT for not less than three-quarters of a normal working week, averaged over each year of candidacy. Such a candidate may not devote more than 300 hours annually to teaching activities, including preparation and marking.

2.11 A candidate may be based at QUT or at a place of employment or sponsoring institution. Normally, support of the sponsoring institution for the candidate's application is required for registration. A candidate may also be external where their residence is outside of Brisbane.

2.12 The Faculty Research Committee may cancel a candidate's registration if, after consulting a candidate's supervisor and having taken account of all relevant circumstances, the committee is of the opinion that the candidate either has effectively discontinued their studies or has no reasonable expectation of completing the course of study within the maximum time allowed (see Section 4).

2.13 A candidate whose registration has lapsed or has been cancelled, and who wishes subsequently to re-enter the course of study to pursue a research program which is substantially the same as the previous investigation may be re-admitted under such conditions as the Faculty Research Committee shall prescribe.
3 - Course of Study

3.1 A candidate for the degree of Master of Applied Science (Research) or Master of Engineering will undertake a program of research and investigation on a topic approved by the Faculty Research Committee.

3.2 All projects should be supported by outside agencies such as industry, government authorities and professional organisations, or by QUT itself. This provision is to ensure that programs are relevant to the aims of the University and the community. It is important that projects be primarily directed towards society or industry need.

3.3 The program must be such as to enable the candidate to develop and demonstrate a level of scientific competence significantly higher than that expected of a first degree graduate. The required competence normally would include mastery of relevant techniques, investigatory skills, critical thinking, and a high level of knowledge in the specialist area.

3.4 Where advised, a candidate may be required to complete satisfactorily a program of formal coursework in subjects relevant to the field of study up to a total class contact of 32 credit points.

3.5 The course of study normally will include:
* participation in University scholarly activities such as research seminars, teaching and publication
* regular face-to-face interactions with supervisors, and
* a program of supervised research, design, investigation, development, construction, or any combination thereof.

The course of study may also include a program of assessed coursework.

3.6 Coursework at masters level demands a capacity for critical analysis and a specialisation of research interests not normally appropriate for an undergraduate program. Such coursework may be conducted in a number of ways:
* as advanced lecture courses
* as seminars in which faculty and candidates present critical studies of selected problems within the subject field
* as independent study or reading courses, or
* as research projects conducted under faculty supervision.

Candidates will be encouraged to attend conferences where these are related to the field of the research.

In all cases, coursework will be based upon a formal syllabus setting out the educational outcomes expected from the course, a list of topics to be covered, the prescribed reading material and the method of assessment of progress through and at the end of the course.

3.7 Maximum and Minimum Coursework Requirements:

Thesis - 96 credit points minimum (at least two-thirds of the degree content)
* Maximum coursework requirement - 32 credit points
* Minimum coursework requirement - 4 credit points - IFN001 Advanced Information Retrieval Skills
* Maximum of 16 credit points per semester for each semester of the program

Additional Requirements:
Attendance and participation in School of Research Centre seminars/workshops (compulsory).

Students must contact the Postgraduate Research Coordinator in their School to finalise any other coursework component of their program.

4 - Period of Time for Completion of Course of Study

4.1 The duration of study will normally be a minimum of one year and a maximum of two years or the part-time equivalent.

4.2 In order to encourage completion of research degrees within a reasonable timeframe, QUT has set a limit of two years on the length of time for which it will fund a faculty for full-time research masters degree candidates.

4.3 A registered full-time graduate student shall present the thesis for examination after a period of at least one year but not more than two years has elapsed from the time of confirmed registration. A registered part-time graduate student shall present the thesis for examination after a period of at least two years. The maximum time is four years from the time of confirmed registration. In special cases the Faculty Research Committee may approve a shorter period.

4.4 Time limits are measured in years from the time of first registration as a graduate student. Periods of exclusion or absence without approval are included.

4.5 Candidates who exceed these limits may be asked to show cause why they should not have their registration in the program terminated. Such candidates must make formal application to the Faculty Research Committee to have their registration extended beyond the normal time. Details of the candidate's progress shall be presented to the committee together with the reasons for the delay in completing the course and the expected date of completion. Where the committee agrees to an extension, a time limit will be set for the maximum period of registration in the program.

4.6 Candidates are notified of termination by registered mail. They have right of appeal to the Academic Appeals Committee.

5 - Supervision

5.1 The Faculty Research Committee shall appoint at least one supervisor the principal supervisor and also at least one associate supervisor. Each member of the supervisory panel shall bring appropriate experience in the research area of the student.

5.2 The Principal Supervisor shall normally be from the academic staff of the QUT school in which the candidate is enrolled.

5.3 The Supervisory Panel shall supervise all aspects of the candidate's work program, shall receive reports from the candidate on progress and shall recommend to the Faculty Research Committee both on successful and unsuccessful completion of components of the coursework incorporated in the candidate's program, on progress on the thesis research project and on continued enrolment.

5.4 The Supervisory Panel shall receive a formal oral and written report from the candidate at least once every semester on progress on the research project.

5.5 Summary of Faculty Supervisory registration process:
To ensure that students receive appropriate supervision from experienced supervisors and active researchers the Faculty has introduced a Supervisors Register which requires registered supervisors to demonstrate performance in three areas.

1. Practice - previous supervisory experience of at least five years.
2. Research - evidence of active research through grants and publications.
6 - Place and Conditions of Work

6.1 The research program will normally be carried out under supervision in a suitable environment within Brisbane. However, external study is possible. External candidates will be required to spend a minimum of four weeks at QUT annually.

6.2 The Faculty Research Committee shall not admit a candidate to a program of research based at the University unless it has received:
* a supporting statement from the Head of the QUT School and/or Postgraduate Research Coordinator in the School in which the study is proposed indicating that, in their opinion, the applicant is a suitable person to undertake a research program leading to the masters degree, that the program is supported, that the school is willing to undertake the responsibility of supervising the work of the applicant and that resources are available to support the proposed research.
* a supporting statement from the head of the QUT school or Postgraduate Research coordinator in which the study is proposed indicating that, in their opinion, the applicant is a suitable person to undertake a research program leading to the Masters degree, that the program is supported, and that after examination of the proposed external facilities and supervision, the school is willing to accept the responsibility of supervising the work.

6.3 The Faculty Research Committee shall not admit a candidate to a program of research based at a sponsoring establishment unless it has received:
* a supporting statement from the employer or director of the sponsoring institution that they are aware of the course rules and are prepared to sponsor and support the applicant, that the applicant will be provided with facilities and time to undertake the research project and that they are willing to accept responsibility for supervising the applicant's work, and
* a supporting statement from the head of the QUT school or Postgraduate Research coordinator in which the study is proposed indicating that, in their opinion, the applicant is a suitable person to undertake a research program leading to the Masters degree, that the program is supported, and that after examination of the proposed external facilities and supervision, the school is willing to accept the responsibility of supervising the work.

7 - Thesis

7.1 In the form of presentation, availability and copyright, the thesis shall comply with all the requirements of the document Requirements for Presenting Theses (Appendix 51 in the Manual of Policies and Procedures).

7.2 A candidate shall submit the title of their thesis for approval by the Faculty Research Committee with their application, and after approval has been granted, no change will be made except with the permission of the committee.

7.3 The candidate shall give two months' written notice of intention to submit their thesis through the Principal Supervisor.

7.4 The thesis shall comply with the following requirements:
* a significant proportion of the work described (as determined by the Faculty Research Committee) must have been carried out subsequent to initial registration for the Masters degree.
* it must describe a program of work carried out by the candidate and must involve either an advanced contribution to the knowledge of the subject or an advanced application of existing knowledge.
* it must reach a satisfactory standard of literary presentation.
* it shall be the candidate's own account of the work. Where work is carried out conjointly with other persons, the Faculty Research Committee shall be advised of the extent of the candidate's contribution to the joint work.
* the thesis shall not contain as its main content any work or material which the candidate has previously submitted for another degree or similar award.
* the thesis may consist primarily of reports, plans and/or documents or may be supported by these if they have a bearing on the subject of the thesis. Other supporting documents such as published papers may also be submitted with the thesis.
* the thesis shall contain an abstract of not more than 300 words.

7.5 Except with the specific permission of the Faculty Research Committee, the thesis must be presented in the English language. Such permission must be sought at the time of application for registration, and will not be granted solely on the grounds that the candidate's ability to satisfy the examiners will be affected adversely by the requirement to present the thesis in English.

7.6 Subject to QUT's Intellectual Property policy, the copyright of the thesis is vested in the candidate.

7.7 Where a candidate, supervisor or the sponsoring establishment wishes the thesis to remain confidential for a period of time after completion of the work, application for approval must be made to the Faculty Research Committee when the thesis is submitted. The period normally shall not exceed two years from the date on which the examiners recommend acceptance of the thesis, during which time the thesis will be held on restricted access in the QUT Library.

7.8 Except where confidentiality of the thesis is necessary, students shall submit their thesis electronically after completion of the examination process and any corrections required to the QUT Library for inclusion in the Australian Digital Thesis Project.

8 - Examination of Thesis

8.1 The Faculty Research Committee shall appoint three examiners, at least one of whom shall be from outside of the University. No supervisor of the candidate shall be appointed as one of the examiners.

8.2 Normally, examiners must agree to read and report upon the thesis within two months of its receipt.

8.3 A candidate may be required to make an oral defence of the thesis.

8.4 On receipt of the reports from the examiners, the Faculty Research Committee shall:
(a) recommend that the thesis be accepted without modification, and to Academic Board that the candidate be awarded the degree, or
(b) recommend to Academic Board that the candidate be awarded the degree, after any minor amendments requested by the examiners have been made, or
(c) recommend that the thesis not be accepted until major revisions have been made. Such revisions might be rewriting one of the sections, with or without additional work, or
(d) not accept the thesis and terminate the candidate's registration.

8.5 If the examiners' reports are conflicting, the Faculty Research Committee may, after appropriate consultation with the Thesis Panel, resubmit the thesis to the examiners
with copies of the examiners' reports and/or seek the advice of a further external examiner. After due consideration of further reports from the examiners, a majority decision will be accepted by the Faculty Research Committee.

Further Information
The Faculty of Built Environment and Engineering: Phone +61 7 3864 1424, Fax +61 7 3864 8381,
e-mail: bee.research@qut.edu.au
WEB address: http://www.bee.qut.edu.au/research

Potential Careers:
Architect, Art Project Manager, Artist, Community Education Officer, Community Worker, Construction Manager, Contract Administrator, Environmental Health Officer, Exchange Student, Industrial Designer, Landscape Architect, Manager, Medical Equipment Sales, Project Developer, Project Manager, Property Development, Property Economist, Public Servant, Quantity Surveyor, Real Estate, Secondary School Teacher, Teacher, Urban and Regional Planner, Urban Designer.
Master of Engineering (BN72)

Year offered: 2008
Admissions: No
CRICOS code: 003465J

Course duration (full-time): 1 year (minimum), 2 years (maximum)
Course duration (part-time): 2 years (minimum), 4 years (maximum)

Domestic fees (per credit point): RTS/RTA: 2008 Full fee tuition $135 per credit point (exceeded max. entitlement) (subject to annual review)
Domestic fees (indicative): 2008: $12,960 (exceeded max. entitlement)

International Fees (per semester): 2008: $9,984 per semester (subject to annual review)

Domestic Entry: At any time
International Entry: At any time

Campus: Gardens Point

Entry Requirements
A four-year degree in an appropriate discipline with Honours or equivalent qualification or a graduate diploma or masters degree in an appropriate discipline with a minimum grade point average of 5 with relevant experience or professional experience and/or other qualifications.

Part-time Study
QUT advises that International Students may only enrol in full-time studies.

Overview
This research program for professional engineers equips you to solve complex industrial problems. The program is available in Civil, Electrical and Electronic Systems, Mechanical, Manufacturing and Medical Engineering. In completing the course you apply yourself to real-world problems in a research project which usually be sponsored by industry, government authorities, professional organisations or QUT. You can enhance your preparation for the research project by completing coursework units as part of your program.Master of Research studies normally include:
* assessed coursework
* participation in university scholarly activities such as research seminars, teaching and publication
* regular meetings with supervisors
* a program of supervised research and investigation
* preparation of a thesis.

Fees
Australian students enrolling after August 31 2000 in a higher degree by research are subject to the conditions of the Commonwealth Government's Research Training Scheme (RTS). Research Students who enrol at QUT will be awarded an RTS place, which is funded by the Commonwealth, or a QUT Research Training Award Scheme (RTA) place, which is a fee remission scholarship.

Research Masters students are entitled to two years full-time equivalent study under these schemes. Students who exceed this entitlement may apply to QUT for an extension, however the University may charge fees for the period of the program which exceeds the student's entitlement. The University determines the fee level.

HDR Director
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Course Information and Notes
Please consult notes for BN71 Master of Applied Science for course information and requirements.

Further Information
The Faculty of Built Environment and Engineering: Phone +61 7 3864 1424, Fax +61 7 3864 8381, e-mail: bee.research@qut.edu.au
WEB address: http://www.bee.qut.edu.au/research

Potential Careers:
Aerospace Avionics Engineer, Biomechanical Engineer, Biomedical Engineer, Civil Engineer, Electrical and Computer Engineer, Electrical Engineer, Environmental Engineer, Exchange Student, Government Officer, Hydrogeologist, Industrial Designer, Information Security Specialist, Instrument Maker, Manager, Manufacturer, Mastering Engineer, Mechanical Engineer, Medical Engineer, Medical Equipment Sales, Medical Imaging Technologist, Network Manager, Programmer, Recording Engineer, Rehabilitation Engineer, Rehabilitation Professionals, Software Engineer, Systems Analyst, Teacher.
Graduate Certificate in Built Environment and Engineering (BN85)

**Year offered:** 2008
**Admissions:** Yes
**CRICOS code:** 060808G

**Course duration (full-time):** 1 semester
**Course duration (part-time):** 2 semesters

**Domestic fees (per credit point):** 2008: $135 per credit point (subject to annual review)
**Domestic fees (indicative):** 2008: $12,960

**International Fees (per semester):** 2008: $9,984 per semester (subject to annual review)
**International Entry:** February and July

Total credit points: 48
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Jay Yang
Campus: Gardens Point

**Overview**
This course serves as a preparation and pathway program for students wishing to enter a masters program in the Faculty of Built Environment and Engineering. It is particularly aimed at students with either a three-year undergraduate degree, or a degree in a different area to the masters of their choice.

**Entry Requirements**
A four-year full-time bachelor degree in a relevant discipline area; or a three-year full-time diploma and three or more years of relevant professional experience in a relevant discipline; and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

**Career Outcomes**
The Graduate Certificate in Built Environment and Engineering does not provide any specific career path. It is offered only as an alternative entry pathway to masters courses in the Faculty of Built Environment and Engineering.

**International Student Entry**
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

**Further Information**
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

**Course structure - February Entry and July Entry**

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<thead>
<tr>
<th>Course level</th>
<th>Course code</th>
<th>Course title</th>
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<tbody>
<tr>
<td>BEE Undergraduate Unit 1</td>
<td>IFP100</td>
<td>Knowledge Transfer and Research Commercialisation (Core Unit)</td>
</tr>
<tr>
<td>BEE Undergraduate Unit 2</td>
<td>ITN228</td>
<td>Enterprise Systems</td>
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<tr>
<td>Other Faculty Postgraduate Unit A</td>
<td>ITN241</td>
<td>Information Technology Management</td>
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<tr>
<td>Other Faculty Postgraduate Unit B</td>
<td>KIP401</td>
<td>Foundations of Communication Design</td>
</tr>
<tr>
<td>All units to be approved by Postgraduate Coordinator prior to enrolment.</td>
<td>PUN301</td>
<td>Occupational Health and Safety Law and Management</td>
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<td></td>
<td>PUP415</td>
<td>Occupational Health</td>
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<td></td>
<td>ITN700</td>
<td>Programming Principles</td>
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<td></td>
<td>ITN701</td>
<td>Networks and Systems</td>
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<td></td>
<td>PUN001</td>
<td>Contemporary Risk Management</td>
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<td>PUN500</td>
<td>Safety Management</td>
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<td>IBN410</td>
<td>International Logistics Management</td>
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<td>IBN408</td>
<td>Global Business Operations</td>
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<td></td>
<td>MGN423</td>
<td>Contemporary Strategic Analysis</td>
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<td></td>
<td>EFN420</td>
<td>Introduction To Financial Management</td>
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</tbody>
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Or consult with BN85 Course Leader. (Other suitable postgraduate units will be continually identified during course development.)
Master of Engineering Management (BN87)

Year offered: 2008
Admissions: Yes
CRICOS code: 006368G
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: $12,960
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)
Domestic Entry: February and July
International Entry: February and July
Total credit points: 96
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Jay Yang
(Discipline coordinator: Dr Achilles Leontakianakos
(Course Leader)
Campus: Gardens Point

Overview
This course offers an engineering management qualification to practising engineers through a formal qualification in management with advanced engineering skills and knowledge. You can choose to specialise in manufacturing or maintenance engineering. Early exit with a Graduate Diploma is available upon completion of four units in the course.

Entry Requirements
A four-year full-time bachelor degree in a relevant engineering discipline area and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

Career Outcomes
The Master of Engineering Management allows graduates to become specialist engineering managers within their chosen professional field, particularly to become a leader and manager of engineering processes. Graduates can also use the skills and knowledge gained to diversify their capabilities across a broader spectrum of engineering disciplines.

International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course structure - February Entry

<table>
<thead>
<tr>
<th>Full-time Course Structure - Year 1, Semester 1</th>
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<tbody>
<tr>
<td>BEN610 Project Management Principles</td>
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<tr>
<td>ENN510 Engineering Knowledge Management</td>
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<td>ENN515 Total Quality Management</td>
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<td>GSN235 Communication, Negotiation and Leadership</td>
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<th>Year 1, Semester 2</th>
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<tbody>
<tr>
<td>BEN710 Sustainable Practice in Built Environment and Engineering</td>
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<td>BEN910 Integrated Project</td>
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<td>ENN530 Asset and Facility Management</td>
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<td>ENN570 Enterprise Resource Planning</td>
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<tr>
<th>Full-time Course Structure - Year 1, Semester 2</th>
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<tbody>
<tr>
<td>BEN610 Project Management Principles</td>
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<th>Year 2, Semester 1</th>
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<tr>
<td>ENN515 Total Quality Management</td>
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<tr>
<td>GSN235 Communication, Negotiation and Leadership</td>
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<thead>
<tr>
<th>Full-time Course Structure - Year 1, Semester 2</th>
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<tbody>
<tr>
<td>BEN710 Sustainable Practice in Built Environment and Engineering</td>
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<tr>
<td>BEN910 Integrated Project</td>
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<tr>
<td>ENN530 Asset and Facility Management</td>
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<tr>
<th>Year 2, Semester 2</th>
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<tbody>
<tr>
<td>BEN610 Project Management Principles</td>
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<tr>
<td>BEN910 Integrated Project</td>
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<tr>
<td>ENN510 Engineering Knowledge Management</td>
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<tr>
<td>ENN515 Total Quality Management</td>
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<tr>
<th>Full-time Course Structure - Year 1, Semester 2</th>
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<tbody>
<tr>
<td>ENN530 Asset and Facility Management</td>
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</tbody>
</table>
ENN570  Enterprise Resource Planning

Year 2, Semester 1
BEN610  Project Management Principles
ENN510  Engineering Knowledge Management

Year 2, Semester 2
BEN710  Sustainable Practice in Built Environment and Engineering
GSN235  Communication, Negotiation and Leadership

Year 3, Semester 1
BEN910  Integrated Project
ENN515  Total Quality Management
Master of Infrastructure Management (BN88)

Year offered: 2008
Admissions: Yes
CRICOS code: 060807G
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: $12,960
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)
Domestic Entry: February and July
International Entry: February and July
Total credit points: 96
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Jay Yang
(Please refer course specific enquiries to Course Leader.)
Discipline coordinator: Professor Manicka Dhanasekar
(Course Leader)
Campus: Gardens Point

Overview
This course addresses the main concepts and methodologies of infrastructure planning and management. It aims to advance and enhance your skills and understanding of the diverse types of infrastructure assets planning and management, including the environmental, social, institutional assessments, and economic and financial aspects of infrastructure management. Early exit with a Graduate Diploma is available upon completion of four units in the course.

Entry Requirements
A four-year full-time bachelor degree in a relevant discipline area; or an equivalent qualification, and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

Career Outcomes
Graduates may choose to become a project manager, asset manager, planner within an infrastructure organisation, or use the skills and knowledge gained to diversify their capabilities across a broader spectrum of construction disciplines. In particular, this course provides graduates with the skills and knowledge to become leaders and managers of infrastructure planning and management.

International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course structure - February Entry

Full-time Course Structure - Year 1, Semester 1
BEN610  Project Management Principles
GSN235  Communication, Negotiation and Leadership
UDN572  Infrastructure Planning and Management
UDN574  Water Resource and Waste Management

Year 1, Semester 2
BEN710  Sustainable Practice in Built Environment and Engineering
BEN910  Integrated Project
ENN530  Asset and Facility Management
UDN576  Transportation Infrastructure

Part-time Course Structure - Year 1, Semester 1
BEN610  Project Management Principles
UDN572  Infrastructure Planning and Management

Year 1, Semester 2
BEN710  Sustainable Practice in Built Environment and Engineering
ENN530  Asset and Facility Management

Year 2, Semester 1
GSN235  Communication, Negotiation and Leadership
UDN574  Water Resource and Waste Management

Year 2, Semester 2
BEN910  Integrated Project
UDN576  Transportation Infrastructure

Course structure - Mid Year Entry

Full-time Course Structure - Year 1, Semester 2
BEN710  Sustainable Practice in Built Environment and Engineering
ENN530  Asset and Facility Management
GSN235  Communication, Negotiation and Leadership
UDN576  Transportation Infrastructure

Year 1, Semester 1
BEN610  Project Management Principles
BEN910  Integrated Project
UDN572  Infrastructure Planning and Management
UDN574  Water Resource and Waste Management

Part-time Course Structure - Year 1, Semester 2
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ENN530</td>
<td>Asset and Facility Management</td>
</tr>
<tr>
<td>UDN576</td>
<td>Transportation Infrastructure</td>
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<td></td>
<td><strong>Year 2, Semester 1</strong></td>
</tr>
<tr>
<td>BEN610</td>
<td>Project Management Principles</td>
</tr>
<tr>
<td>UDN572</td>
<td>Infrastructure Planning and Management</td>
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<td></td>
<td><strong>Year 2, Semester 2</strong></td>
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<tr>
<td>BEN710</td>
<td>Sustainable Practice in Built Environment</td>
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<td>and Engineering</td>
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<tr>
<td>GSN235</td>
<td>Communication, Negotiation and Leadership</td>
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<td><strong>Year 3, Semester 1</strong></td>
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<tr>
<td>BEN910</td>
<td>Integrated Project</td>
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<tr>
<td>UDN574</td>
<td>Water Resource and Waste Management</td>
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</tbody>
</table>
Master of Project Management (BN89)
Year offered: 2008
Admissions: Yes
CRICOS code: 060815G
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: $12,960
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)
Domestic Entry: February and July
International Entry: February and July
Total credit points: 96
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Jay Yang
Discipline coordinator: Associate Professor Bambang Trigunarsyah (Course Leader)
Campus: Gardens Point

Overview
This course is designed to provide you with appropriate knowledge and experience in managing projects in professional organisations. It addresses the main concepts and methodologies of project management and provides you with educational opportunities for advanced study following your graduation in a relevant discipline. This course aims to produce project managers capable of ensuring project success through the management of constraints in time, cost and quality, as well as of social, political and environmental challenges. Early exit with a Graduate Diploma is available upon completion of four units in the course.

Entry Requirements
A four-year full-time bachelor degree in a relevant discipline area; and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

Career Outcomes
Graduates will have the necessary expertise to take on managerial roles in projects of their chosen profession. They will have acquired professional experience which will enable them to manage project goals within constraints, contribute to strategic decision making through understanding a range of specialty areas relevant to project management. They will also make a difference to professional practice by introducing project-based practices and a project management approach.

International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course structure - February Entry

<table>
<thead>
<tr>
<th>Full-time Course Structure - Year 1, Semester 1</th>
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<tbody>
<tr>
<td>BEN610 Project Management Principles</td>
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<tr>
<td>GSN235 Communication, Negotiation and Leadership</td>
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<tr>
<td>UDN590 Project Scope and Risk Management</td>
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<tr>
<td>UDN592 Resource, Schedule and Performance Management</td>
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<th>Year 1, Semester 2</th>
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<tr>
<td>BEN710 Sustainable Practice in Built Environment and Engineering</td>
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<tr>
<td>BEN910 Integrated Project</td>
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<tr>
<td>UDN594 Procurement and Delivery Strategies</td>
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<tr>
<td>UDN596 Human Resource and Organisational Culture</td>
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<th>Part-time Course Structure - Year 1, Semester 1</th>
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<tr>
<td>BEN610 Project Management Principles</td>
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<td>UDN590 Project Scope and Risk Management</td>
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<th>Year 1, Semester 2</th>
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<tbody>
<tr>
<td>UDN594 Procurement and Delivery Strategies</td>
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<tr>
<td>UDN596 Human Resource and Organisational Culture</td>
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<th>Year 2, Semester 1</th>
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<tr>
<td>GSN235 Communication, Negotiation and Leadership</td>
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<tr>
<td>UDN592 Resource, Schedule and Performance Management</td>
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<td>BEN710 Sustainable Practice in Built Environment and Engineering</td>
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<td>BEN910 Integrated Project</td>
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Course structure - Mid Year Entry

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<tr>
<th>Full-time Course Structure - Year 1, Semester 2</th>
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<tr>
<td>BEN710 Sustainable Practice in Built Environment and Engineering</td>
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<tr>
<td>GSN235 Communication, Negotiation and Leadership</td>
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<tr>
<td>UDN594 Procurement and Delivery Strategies</td>
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<tr>
<td>UDN596 Human Resource and Organisational Culture</td>
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<th>Year 1, Semester 1</th>
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<tr>
<td>BEN610 Project Management Principles</td>
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<tr>
<td>BEN910 Integrated Project</td>
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<td>Course Code</td>
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<tr>
<td>UDN590</td>
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<td>UDN592</td>
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**Part-time Course Structure - Year 1, Semester 2**

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<th>Course Code</th>
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<td>UDN594</td>
<td>Procurement and Delivery Strategies</td>
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<td>UDN596</td>
<td>Human Resource and Organisational Culture</td>
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**Year 2, Semester 1**

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<td>BEN610</td>
<td>Project Management Principles</td>
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<td>UDN590</td>
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**Year 2, Semester 2**

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<th>Course Code</th>
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<tr>
<td>BEN710</td>
<td>Sustainable Practice in Built Environment and Engineering</td>
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<tr>
<td>GSN235</td>
<td>Communication, Negotiation and Leadership</td>
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**Year 3, Semester 1**

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BEN910</td>
<td>Integrated Project</td>
</tr>
<tr>
<td>UDN592</td>
<td>Resource, Schedule and Performance Management</td>
</tr>
</tbody>
</table>
Bachelor of Technology (Civil) (CE33)

Year offered: 2008
Admissions: No

**Domestic fees (per credit point):** Commonwealth Supported Place; Full Fee Tuition 2008: $166 per credit point (*subject to annual review*)

**Domestic fees (indicative):** 2008: Full fee tuition $15,936; CSP $6,990
Associate Degree in Civil Engineering/Bachelor of Technology (Civil) (CE35)

Year offered: 2008
Admissions: No
Course duration (full-time): 3 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,966
Domestic Entry: February
QTAC code: This course is no longer offered
Past rank cut-off: 50
Past OP cut-off: 24
Total credit points: 288
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Jon Bunker
Campus: Gardens Point

Entry Requirements
Applicants must apply via QTAC and satisfy the entry requirements for the Associate Degree in Civil Engineering at the Southbank Institute.

Career Outcomes
Civil Engineering Technologists provide complex technical support to assist civil engineers on the design construction and maintenance of projects. The Bachelor of Technology qualification is now required in government organisations such as Main Roads for positions such as chief design draftsman and construction supervisors. Immediate employment would be as design draftsman and on-site supervisor. The civil engineering consulting industry will also have a need for technologists trained in routine design procedures and CAD drafting skills.

Professional Recognition
The course has provisional recognition by Engineers Australia.

Dual TAFE/QUT Awards
This dual award is a cooperative arrangement between Southbank Institute (SBI) and the Faculty of Built Environment and Engineering, Queensland University of Technology. Initial entry is to a specially designed two-year associate degree at SBI, followed by a third year at QUT, to qualify for the Bachelor of Technology degree. In their second year students study units from QUT and SBI which form part of the Advanced Diploma, and in third year students study one module at SBI together with their QUT units to complete their Bachelor of Technology (Civil) degree. Subject to final approval.

Special Course Requirements
A candidate for the degree of Bachelor of Technology (Civil) must obtain at least 45 days of industrial experience/practice in an engineering environment approved by the course coordinator.

Further Information
Phone +61 7 3864 2852, Fax +61 7 3864 1515, email: bee.enquiries@qut.com

Deferment
QUT’s deferment policy does not apply to this course.

Course structure

<table>
<thead>
<tr>
<th>Year 2 - Semester 1</th>
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<tbody>
<tr>
<td>NRB100</td>
<td>Environmental Science</td>
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<tr>
<td>ENB273</td>
<td>Civil Materials</td>
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<tbody>
<tr>
<td>ENB276</td>
<td>Structural Engineering 1</td>
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<tbody>
<tr>
<td>ENB271</td>
<td>Design of Structural Timber and Earthworks</td>
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<tr>
<td>ENB272</td>
<td>Geotechnical Engineering 1</td>
</tr>
<tr>
<td>CEB328</td>
<td>Investigation Project</td>
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<tbody>
<tr>
<td>ENB201</td>
<td>Fluid Mechanics</td>
</tr>
<tr>
<td>ENB274</td>
<td>Design of Environmentally Sustainable Systems</td>
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<tr>
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<tr>
<td>HECEA20</td>
<td>Municipal Engineering (at Southbank TAFE)</td>
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<th>Electives - Semester 1</th>
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<tbody>
<tr>
<td>ENB375</td>
<td>Structural Engineering 2</td>
</tr>
<tr>
<td>ENB378</td>
<td>Water Engineering</td>
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<tr>
<td>MAB233</td>
<td>Engineering Mathematics 3</td>
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<tr>
<th>Electives - Semester 2</th>
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<tbody>
<tr>
<td>CEB413</td>
<td>Structural Engineering 3</td>
</tr>
<tr>
<td>ENB371</td>
<td>Geotechnical Engineering 2</td>
</tr>
<tr>
<td>ENB376</td>
<td>Transport Engineering</td>
</tr>
<tr>
<td>ENB377</td>
<td>Water and Waste Water Treatment Engineering</td>
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</tbody>
</table>

Potential Careers:
Engineering Technologist, Technical Officer.
Bachelor of Engineering (Civil) (CE44)

Year offered: 2008
Admissions: No
CRICOS code: 037544G
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $20,928; CSP $6,271
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)
Domestic Entry: February and July
International Entry: February (July entry available to students with Advanced Standing)
QTAC code: 412502; Dfee: 412506
Past rank cut-off: 80. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.
OP Guarantee: Yes
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Jon Bunker
Campus: Gardens Point

Additional Admission Information
The CE44 Bachelor of Engineering (Civil) course has been replaced by EN40 Bachelor of Engineering (Civil) from 2006 onwards. There will be no intake into the CE44 course in 2006 with the exception of QTAC applicants commencing their studies with at least 72 credit points of advanced standing (academic credit). If offered a place, you may be required to attend an in-person academic credit and enrolment session as detailed in your enrolment materials.

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.

Overview

Professional Recognition
This degree is recognised for the purpose of membership of Engineers Australia. It is professionally recognised by the Hong Kong Institution of Engineers, the UK Institution of Mechanical Engineers, the Institution of Professional Engineers, New Zealand, The Institution of Engineers, Ireland and the various professional engineering registry bodies in the USA.

Minors
Subject to the approval of the course coordinator, students may be able to choose a minor area of study. A minor is a collection of four units from the one study area, that totals 48 credit points. This will not affect the total number of credit points required for course completion. Students may choose from the list of minors, available from the office of the Faculty of Built Environment and Engineering.

Mid-year entry
The CE45 Bachelor of Engineering (Civil) midyear course has been replaced by EN40 Bachelor of Engineering (Civil) from 2006 onwards. There will be no intake into the CE45 course in 2006 with the exception of QTAC applicants commencing their studies with at least 72 credit points of advanced standing (academic credit).

If offered a place, you may be required to attend an in-person academic credit and enrolment session as detailed in your enrolment materials.

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

Deferment
QUT’s deferment policy does not apply to this course.

Further Information
Phone +61 7 3864 2852, Fax +61 7 3864 1515, email: bee.enquiries@qut.com

Course structure - February entry (CE44)

Year 4 - Semester 1
CEB411  Thesis Project A
OR Elective
CEB412  Project Engineering 2
CEB424  Professional Studies 6 (Concrete Structures and Geotechnical Engineering)
Choose one Elective

Year 4 - Semester 2
CEB413  Structural Engineering 3
CEB415  Thesis Project B
OR CEB411 or Elective for those who have
completed CEB411
CEB425 Professional Studies 7 (Civil Design Project)
Choose one Elective

Course structure - Mid year entry (CE45)

Year 3 - Semester 1

Program is the same as CE44 entry hereafter.

Note:
Mid-Year Entry International Students please consult the course coordinator regarding your course structure.

Electives

Semester 1
CEB416 Environmental Law and Assessment
CEB507 Finite Element Methods
CEB508 Transport Engineering 2
CEB509 Project Management and Administration
CEB523 Environmental Geotechnology

Semester 2
ENB383 Environmental Resource Management
CEB513 Advanced Construction Practice
CEB514 Project Control
CEB516 Masonry Design
CEB517 Advanced Engineering Studies
CEB518 River and Coastal Engineering
CEB522 Geotechnical Engineering Practice

With approval from the course coordinator students may be permitted to enrol in one elective unit from other QUT faculties. Not all electives will run every year.

Course structure - Environmental Major

Years 1, 2 and 3
See Year 1, 2 and 3 of full-time CE44 course structure

Year 4 - Semester 1
CEB411 Thesis Project A
OR Elective
CEB416 Environmental Law and Assessment
CEB424 Professional Studies 6 (Concrete Structures and Geotechnical Engineering)
CEB523 Environmental Geotechnology

Year 4 - Semester 2
CEB415 Thesis Project B
OR CEB411 or elective for those who have completed CEB411
CEB426 Environmental Professional Studies (Civil Project)

Potential Careers:
Civil Engineer, Environmental Engineer.
Bachelor of Engineering (Civil and Environmental Management) (CE46)

Year offered: 2008
Admissions: No
CRICOS code: 040310K
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $216 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $20,928; CSP $6,536
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)
Domestic Entry: February
International Entry: February and July
QTAC code: 412502; Dfee: 412506
Past rank cut-off: 80. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year. Z
OP Guarantee: Yes
Total credit points: 384
Course coordinator: Dr R.Mahalinga-Iyer
Discipline coordinator: Dr Jon Bunker
Campus: Gardens Point

Additional Admission Information
The CE46 Bachelor of Engineering (Civil and Environmental Management) course has been replaced by EN40 Bachelor of Engineering (Civil and Environmental Management) from 2006 onwards. There will be no intake into the CE46 course in 2008 with the exception of QTAC applicants commencing their studies with at least 240 credit points of advanced standing (academic credit); i.e. those students who will be starting in the fourth year of the program.

If offered a place you are required to attend an in-person academic credit and enrolment session as detailed in your enrolment materials.

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 waste water treatment plants and refineries. As legislation becomes more stringent and the community's expectations increase, there will be need for institutions to employ more environmental engineers.

Overview
The course provides technical education civil, environmental engineering and science as well as environmental management skills in urban infrastructure and mining development will be taught. The course also teaches social, legal government and economic topics related to sustainable development.

Professional Recognition
This course has provisional accreditation from Engineers Australia (EA).

Minors
Subject to the approval of the course coordinator, students may be able to choose a minor area of study. A minor is a collection of four units from the one study area, that totals 48 credit points. This will not affect the total number of credit points required for course completion. Students may choose from the list of minors, available from the office of the Faculty of Built Environment and Engineering.

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

Deferment
QUT's deferment policy does not apply to this course.

Further Information
Phone +61 7 3846 2852, Fax +61 7 3864 1515, email: bee.enquiries@qut.com

Course Structure

### Year 4 - Semester 1
- CEB416 Environmental Law and Assessment
- CEB420 Environmental Thesis Project A
- CEB523 Environmental Geotechnology
- Environmental Elective

### Year 4 - Semester 2
- CEB426 Environmental Professional Studies (Civil Project)
- UDB164 Population and Urban Studies
- 2 Environmental Electives (approval of Course Coordinator is required)

Electives - Semester 1 (subject to availability)
- CEB415 Thesis Project B
- NRB500 Environmental Systems and Modelling
- NRB501 Spatial Analysis of Environmental Systems
- Or other units approved by the course coordinator.

Electives - Semester 2 (subject to availability)
- CEB415 Thesis Project B
- NRB440 Environmental Chemistry
- NRB600 Sustainable Environmental Management
- NRB672 Marine and Freshwater Ecosystems
- Or other units approved by the course coordinator.
Potential Careers:
Civil Engineer, Environmental Engineer.
Master of Engineering Science (Civil Engineering) (CE74)

Year offered: 2008
Admissions: No
CRICOS code: 020300M
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960
International Fees (per semester): No new admissions (subject to annual review)
Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
Total credit points: 96
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Professor Arun Kumar / Professor Manicka Dhanasekar (Course Leaders)
Campus: Gardens Point

Entry Requirements
A Bachelor of Engineering degree with Honours in Civil Engineering or a Graduate Diploma in Civil Engineering with a grade point average of at least 5 on a 7-point scale. If applicants have completed 50 per cent of the Graduate Diploma in Civil Engineering with a minimum grade point average of 5 they may transfer to the Masters program. If applicants have not taken units equivalent to QUT undergraduate units in their chosen area of specialist study, they may need to complete additional undergraduate units as a masters qualifying program.

Overview
This course provides you with specialist postgraduate education in transportation, public health, environmental, or municipal engineering and allows you to develop your research skills through an intensive study of a particular topic.

Course Structure
The course consists of units and a thesis project totalling 96 credit points. 24 credit points allocated to a project and the remainder to the non project units. The majority of the units are common with the Graduate Diploma in Civil Engineering (CE64). Students who do not wish to undertake the Environmental major must complete the generic core units plus any combination of elective units as listed below, to make up the minimum total of 96 credit points. Such programs should be devised in consultation with the course coordinator.

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course structure (full-time)

Environmental Engineering Major

Semester 1
CEP291 Environmental Law and Assessment
CEP997-1 Project B
2 Electives

Semester 2
CEP141 Studies in Environmental Engineering
CEP997-2 Project B
2 Electives

Core Units

Semester 1
CEP201 Process Modelling
CEP997-1 Project B
2 Electives

Semester 2
CEP295 Civil Engineering Management in a Project Environment
CEP997-2 Project B
2 Electives

Electives - Semester 1
CEP142 Water Pollution Control
CEP161 Professional Development Studies 1
CEP201 Process Modelling
CEP218 Transportation Engineering
CEP291 Environmental Law and Assessment
CEP293 Pavement Design
CEP294 Engineering Contract Development and Administration

Electives - Semester 2
CEP141 Studies in Environmental Engineering
CEP175 Pavement Maintenance Rehabilitation and Recycling
CEP216 Advanced Traffic Engineering
CEP262 Professional Development Studies 2
CEP295 Civil Engineering Management in a Project Environment

PLEASE NOTE:
Advice must be sought from the Course Coordinator before enrolling in either CEP161 or CEP262.
The School reserves the right to offer the units according to enrolment quotas and staff
availability. With permission of the Course Coordinator students may be permitted to take electives from other engineering areas.

One postgraduate unit from inside/outside of the School can be undertaken as an elective with prior approval of the Course Coordinator.

Potential Careers:

Civil Engineer, Environmental Engineer.
Master of Engineering Science (Civil Engineering Studies) (CE75)

Year offered: 2008
Admissions: No
CRICOS code: 042259C
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)
Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
Total credit points: 96
Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Professor Arun Kumar / Professor Manicka Dhanasekar (Course Leaders)
Campus: Gardens Point

Entry Requirements
A Bachelor of Engineering degree with honours in Civil Engineering OR equivalent, with a grade point average of at least 5 on a 7-point scale.

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Overview
This program had been designed to provide industry professionals with flexibility and breadth. The course includes a unit on Research Methodology.

Course Structure
The flexible Master of Engineering Science (Civil Engineering Studies) program allows students to choose three units from a common pool of units offered by all the Engineering Schools (Band 1). A band of Civil Engineering units is then offered from which students choose three units (Band 2). Any units from Band 1 could also be chosen for Band 2 provided that they come from the School of Civil Engineering. The final component requires enrolment in a Civil Engineering Project (equivalent to 24 credit points) (Band 3).

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course Structure

<table>
<thead>
<tr>
<th>Full-time Course Structure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Band 1 Units</strong></td>
</tr>
<tr>
<td>Choose 3 units from the following Band 1 units.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Band 1 - Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEP142 Water Pollution Control</td>
</tr>
<tr>
<td>CEP201 Process Modelling</td>
</tr>
<tr>
<td>CEP291 Environmental Law and Assessment</td>
</tr>
<tr>
<td>CEP294 Engineering Contract Development and Administration</td>
</tr>
<tr>
<td>EEP101 Algorithms for Control and Engineering</td>
</tr>
<tr>
<td>EEP102 Unix and C for Engineers</td>
</tr>
<tr>
<td>EEP103 Computer Hardware and Interfacing</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Band 1 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEP141 Studies in Environmental Engineering</td>
</tr>
<tr>
<td>CEP295 Civil Engineering Management in a Project Environment</td>
</tr>
<tr>
<td>EEP129 Image Processing and Computer Vision</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Band 1 - Block Mode#</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEN101 Research Methodology</td>
</tr>
<tr>
<td>MEN170 Systems Modelling and Simulation</td>
</tr>
<tr>
<td>MEN172 Cost Analysis and Asset Management</td>
</tr>
<tr>
<td>MEN280 Engineering Project Management</td>
</tr>
</tbody>
</table>

# Block mode classes are held in teaching periods, which run consecutively for 5 weeks at a time, instead of semesters. Please check QUT Virtual or the School Administration Officer for details of teaching periods for the above block mode units.

<table>
<thead>
<tr>
<th>Band 2 Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose 3 units from the range of Band 2 units. The following Civil Engineering units are offered as electives within CE74 and may be cancelled due to insufficient enrolment numbers.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Band 2 - Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEP142 Water Pollution Control</td>
</tr>
<tr>
<td>CEP218 Transportation Engineering</td>
</tr>
<tr>
<td>CEP291 Environmental Law and Assessment</td>
</tr>
<tr>
<td>CEP293 Pavement Design</td>
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</table>

<table>
<thead>
<tr>
<th>Band 2 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEP141 Studies in Environmental Engineering</td>
</tr>
<tr>
<td>CEP175 Pavement Maintenance Rehabilitation and Recycling</td>
</tr>
<tr>
<td>CEP216 Advanced Traffic Engineering</td>
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<tr>
<td>CEP295 Civil Engineering Management in a Project Environment</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Band 3 Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students must complete their 24 cp project over one or two semesters (summer semester is an option)</td>
</tr>
</tbody>
</table>

Most of these units are offered once a year (either in Semester 1 or Semester 2). Students are advised to check carefully the unit availability prior to enrolling.
by enrolling in the following two 12 cp units.
Students must discuss these options with the
Course Coordinator before enrolling.

CEP997-1  Project B
CEP997-2  Project B

Please note: The School reserves the right to
offer these units according to enrolment quotas
and staff availability.

Potential Careers:
Civil Engineer, Environmental Engineer.
Bachelor of Applied Science (Construction Management) (CN51)

Year offered: 2008
Admissions: No
CRICOS code: 006363B
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,368
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February and July
International Entry: February and July
QTAC code: 412312; Dfee: 412316
Past rank cut-off: 75. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.
OP Guarantee: Yes
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr John Hayes
Discipline coordinator: Mr Paul Den Ronden
Campus: Gardens Point

Additional Admission Information
The CN51 Bachelor of Applied Science (Construction Management) course has been replaced by UD40 Bachelor of Urban Development (Construction Management) from 2006 onwards. There will be no intake into the CN51 course in 2008 with the exception of QTAC applicants commencing their studies with at least 240 credit points of advanced standing (academic credit); i.e. those students who will be starting in the fourth year of the program.

If offered a place you are not required to lodge an academic credit form, as academic credit will be awarded by QUT before the census date of your first teaching period.

After being awarded this credit and if you wish to seek for additional academic credit, you are then required to lodge an Application for Academic Credit form for that additional credit by the due date and subject QUT rules.

Career Outcomes
Graduates employed in the construction process are involved in the coordinating 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.

Overview
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 environment. It educates students to become effective construction managers with comprehensive technological knowledge, management principles and communication skills.

Special Course Requirements
All students are required to obtain a minimum of 100 days of employment in the final year of the course as a part of CNB409 Professional Practice 1 and CNB423 Professional Practice 2.

Professional Recognition
Graduates with relevant experience are eligible for membership of the Australian Institute of Building.

Minors
Subject to the approval of the course coordinator, students may be able to choose a minor area of study. A minor is a collection of four units from the one study area, that totals 48 credit points. This will not affect the total number of credit points required for course completion. Students may choose from the list of minors, available from the office of the Faculty of Built Environment and Engineering.

Further Information
Phone +61 7 3864 2852, Fax +61 7 3864 1515, email: bee.enquiries@qut.com

Deferment
QUT’s deferment policy does not apply to this course.

Course structure - Full-time

<table>
<thead>
<tr>
<th>Year 4 - Semester 1</th>
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</thead>
<tbody>
<tr>
<td>CNB409</td>
</tr>
<tr>
<td>CNB433</td>
</tr>
<tr>
<td>Elective</td>
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<td>Elective</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Year 4 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNB410</td>
</tr>
<tr>
<td>CNB423</td>
</tr>
<tr>
<td>Elective</td>
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<td>Elective</td>
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</table>

<table>
<thead>
<tr>
<th>Electives - Semester 1</th>
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</thead>
<tbody>
<tr>
<td>CNB402</td>
</tr>
<tr>
<td>CNB408</td>
</tr>
<tr>
<td>CNB481</td>
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<tr>
<td>CNB483</td>
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</tbody>
</table>

Please Note: CNB402 is a recommended elective for semester 1 year 4.
<table>
<thead>
<tr>
<th>Year 4 - Semester 2</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>CNB420</td>
<td>Current Construction Issues</td>
</tr>
<tr>
<td>CNB425</td>
<td>International Construction</td>
</tr>
<tr>
<td>CNB434</td>
<td>Dissertation B</td>
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</tbody>
</table>

**Course structure - Flexible Mode**

<table>
<thead>
<tr>
<th>Year 4 - Semester 1</th>
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</thead>
<tbody>
<tr>
<td>CNB409</td>
<td>Professional Practice 1</td>
</tr>
<tr>
<td>UDB213</td>
<td>Construction Estimating</td>
</tr>
<tr>
<td>UDB313</td>
<td>Programming and Scheduling</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 - Semester 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CNB423</td>
<td>Professional Practice 2</td>
</tr>
<tr>
<td>UDB215</td>
<td>Building Services Engineering</td>
</tr>
<tr>
<td>UDB314</td>
<td>Statutory Construction Law</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 - Semester 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UDB301</td>
<td>Research Methods</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
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<table>
<thead>
<tr>
<th>Year 5 - Semester 2</th>
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</tr>
</thead>
<tbody>
<tr>
<td>UDB302</td>
<td>Development Processes</td>
</tr>
<tr>
<td>UDB316</td>
<td>Cost Planning and Control</td>
</tr>
<tr>
<td>UDB410</td>
<td>Construction Management</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Year 6 - Semester 1</th>
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<tbody>
<tr>
<td>Elective</td>
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<tr>
<td>Elective</td>
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<td>null</td>
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</tbody>
</table>

See list of electives in full-time structure.

**Course structure- Full-time -Mid-Year Entry**

<table>
<thead>
<tr>
<th>Year 4 - Semester 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CNB409</td>
<td>Professional Practice 1</td>
</tr>
<tr>
<td>UDB310</td>
<td>Highrise Construction and Engineering</td>
</tr>
<tr>
<td>UDB311</td>
<td>Structural Engineering Design</td>
</tr>
<tr>
<td>UDB313</td>
<td>Programming and Scheduling</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 - Semester 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CNB410</td>
<td>Property Development</td>
</tr>
<tr>
<td>CNB423</td>
<td>Professional Practice 2</td>
</tr>
<tr>
<td>UDB215</td>
<td>Building Services Engineering</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 - Semester 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UDB301</td>
<td>Research Methods</td>
</tr>
<tr>
<td>UDB312</td>
<td>Contract Administration</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td></td>
</tr>
</tbody>
</table>
Bachelor of Applied Science (Quantity Surveying) (CN53)

Year offered: 2008
Admissions: No
CRICOS code: 003500M
Course duration (full-time): 4 years

Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,196
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February and July
International Entry: February and July
QTAC code: 412332; Dfee: 412336

Past rank cut-off: 72. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.

OP Guarantee: Yes
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr John Hayes
Discipline coordinator: Mr Jason Gray
Campus: Gardens Point

Additional Admission Information
The CN53 Bachelor of Applied Science (Quantity Surveying) course has been replaced by UD40 Bachelor of Urban Development (Quantity Surveying) from 2006 onwards. There will be no intake into the CN53 course in 2008 with the exception of QTAC applicants commencing their studies with at least 240 credit points of advanced standing (academic credit); i.e. those students who will be starting in the fourth year of the program.

If offered a place you are not required to lodge an academic credit form, as academic credit will be awarded by QUT before the census date of your first teaching period.

After being awarded this credit and if you wish to seek for additional academic credit, you are then required to lodge an Application for Academic Credit form for that additional credit by the due date and subject QUT rules.

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.

Overview
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 application, measurement of construction, and legal issues.

Special Course Requirements
All students are required to obtain a minimum of 100 days of employment in the final year of the course as a part of the units Professional Practice 1 and Professional Practice 2. Only international students are eligible to complete a portion of their work experience offshore, and in this case students will receive no assistance in gaining work experience.

Professional Accreditation and Recognition
The course is offered with or without honours. Both the honours and non-honours versions of the course are fully accredited by the Australian Institute of Quantity Surveyors and the Board of Quantity Surveyors Malaysia (BQSM). Re-accreditation with the Royal Institution of Chartered Surveyors (honours version only) and Singapore Institute of Surveyors and Valuers is currently being sought.

Minors
Subject to the approval of the course coordinator, students may be able to choose a minor area of study. A minor is a collection of four units from the one study area, that totals 48 credit points. This will not affect the total number of credit points required for course completion, but this will affect professional accreditation and recognition in relation to RICS and SISV. The course coordinator will therefore need to be satisfied that the student fully understands the implications that the minor will have on professional accreditation and recognition before approval to the minor is granted. Students may choose from the list of minors, available from the office of the Faculty of Built Environment and Engineering.

Advanced Standing
Up to 4 semesters of advanced standing may be granted, subject to prior learning and qualifications. Students seeking accreditation from the Hong Kong Institute of Surveyors are not able to accept any advanced standing, and must complete the entire course. In the special case of students who complete the QUT BAppSc Construction Management course and are therefore eligible to enter the final year of the BAppSc Quantity Surveying course, these students will find that their BAppSc Quantity Surveying course is only accredited by the Australian Institute of Quantity Surveyors.

Electives
Note A: Electives as listed or an approved elective from other QUT courses. Students seeking RICS and SISV accreditation should not enrol in Note A electives but follow the course structure as specified.

Further Information
Phone +61 7 3864 2852, Fax +61 7 3864 1515, email: bee.enquiries@qut.com

Deferment
QUT's deferment policy does not apply to this course.

Course structure - February Entry - Full-time
### Course Structure - July Entry Full time

#### Year 4 - Semester 1
- CNB409 Professional Practice 1
- CNB433 Dissertation A
- CNB482 Measurement 4
- UDB310 Highrise Construction and Engineering

#### Year 4 - Semester 2
- CNB423 Professional Practice 2
- CNB434 Dissertation B
- UDB215 Building Services Engineering
- UDB316 Cost Planning and Control

#### Year 5 - Semester 1
- UDB312 Contract Administration
- UDB313 Programming and Scheduling

### Electives

#### Electives - Semester 1
- CNB402 Investment Theory
- CNB408 Advanced Building and Civil Construction
- CNB481 Construction Dispute Management
- CNB483 Smart and Sustainable Construction

#### Electives - Semester 2
- CNB410 Property Development
- CNB420 Current Construction Issues
- CNB424 Specialist Measurement
- CNB425 International Construction

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### Course Structure - February Entry - Flexible-mode

#### Year 4 - Semester 1
- CNB482 Measurement 4
- UDB213 Construction Estimating
- UDB313 Programming and Scheduling

#### Year 4 - Semester 2
- UDB215 Building Services Engineering
- UDB316 Cost Planning and Control

#### Year 5 - Semester 1
- BEB701 Work Integrated Learning 1
- UDB301 Research Methods
- UDB315 Measurement 3

#### Year 5 - Semester 2
- BEB801 Project 1
- UDB314 Statutory Construction Law

#### Year 6 - Semester 1
- Elective
- Elective

### Electives

#### Electives - Semester 1
- CNB402 Investment Theory
- CNB408 Advanced Building and Civil Construction
- CNB481 Construction Dispute Management
- CNB483 Smart and Sustainable Construction

#### Electives - Semester 2
- CNB410 Property Development
- CNB420 Current Construction Issues
- CNB424 Specialist Measurement
- CNB425 International Construction

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**Note:** CNB424 and CNB408 are core units for Malaysian students seeking BQSM accreditation.

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**Potential Careers:**
Estimator, Manager, Quantity Surveyor.
Bachelor of Property Economics (CN54)

Year offered: 2008
Admissions: No
CRICOS code: 040319A
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,491
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February and July
QTAC code: 412322; Dfee: 412326
Past rank cut-off: 77; Dfee: 412326. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information.
OP Guarantee: Yes
Total credit points: 384, or 288 for 3 years early exit option
Course coordinator: Dr John Hayes
Discipline coordinator: Ms Connie Susilawati
Campus: Gardens Point

Additional Admission Information
The CN54 Bachelor of Property Economics course has been replaced by UD40 Bachelor of Urban Development (Property Economics) from 2006 onwards. There will be no intake into the CN54 course in 2008 with the exception of QTAC applicants commencing their studies with at least 240 credit points of advanced standing (academic credit); i.e. those students who will be starting in the fourth year of the program.

If offered a place you are not required to lodge an academic credit form, as academic credit will be awarded by QUT before the census date of your first teaching period.

After being awarded this credit and if you wish to seek for additional academic credit, you are then required to lodge an Application for Academic Credit form for that additional credit by the due date and subject QUT rules.

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.

Overview
This course is concerned with all aspects of property - investment, asset management, development, valuation and research - with a focus on finance and on the commercial property market sector. The program incorporates a major in finance (through the Faculty of Business) and specialist 4th year programs, with strong industry links.

Special Course Requirements
All students must undertake 60 days' professional work experience during the course as part of CNB390 Professional Practice. A work experience diary is to be maintained and available for inspection by the unit coordinator as a formal assessment component.

A student registered in the flexible or part-time study program must be employed full-time in an approved organisation for three of the final four years of the course. Part-time study generally involves around 8 formal contact hours per week and some release from employment is required.

Professional Recognition
Graduates with relevant professional experience are eligible for membership of the Australian Property Institute and registration by the Valuers’ Registration Board of Queensland. The course is accredited by the Royal Institution of Chartered Surveyors. Accreditation by the Singapore Institute of Surveyors and Valuers will be sought in 2004.

Minors
Subject to the approval of the course coordinator, students may choose a minor area of study. A minor is a collection of four units from the one study area, that totals 48 credit points. This will not affect the total number of credit points required for course completion. Students may choose from the list of minors, available from the office of the Faculty of Built Environment and Engineering.

Special Note
Students may elect to complete their studies on the completion of 3 years (or flexible part-time equivalent). Students who select this option will graduate with a Bachelor of Applied Science (Property Economics) degree. This degree provides full domestic accreditation with the Australian Property Institute and Valuers’ Registration Board of Queensland. Students graduating on the four year program have the potential to graduate with honours according to their overall grade point average.

Flexible Mode
Students may take up to 3 units per semester from the full-time timetable.

Further Information
Phone +61 7 3864 2852, Fax +61 7 3864 1515, email: bee.enquiries@qut.com

Deferment
QUT's deferment policy does not apply to this course.

Course structure

<table>
<thead>
<tr>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNB490-1 Research Dissertation</td>
</tr>
</tbody>
</table>
Students must complete the 3 core units above plus ALL FIVE units from any one of the elective options below. All electives must be approved by the course coordinator prior to year 4 enrolment.

**Option 1- Valuation and Analysis**
- EFB318 Portfolio and Security Analysis
- CNB494 Advanced Market Research Analysis
- CNB491 Rural Valuation
- CNB492 Business and Specialist Valuation
- CNB493 Advanced Property Valuation and Analysis

**Option 2- Property and Asset Management**
- CNB494 Advanced Market Research Analysis
- EFB318 Portfolio and Security Analysis
- CNB495 Strategic Property and Facilities Management
- EFB326 Applied Portfolio Management
- MGB207 Human Resource Issues and Strategy

**Option 3 - Development Management**
- CNB496 Project Management
- CNB497 Project Cost and Risk Management
- CNB498 Project Human Resource Management
- CNB499 International Project Development Management
- EFB312 International Finance

**Option 4 - Faculty specified minor**
- 4 Faculty minor electives
- Free choice elective

**Potential Careers:**
Project Developer, Project Manager, Property Development, Property Economist, Property Management, Real Estate.
Graduate Diploma in Project Management (CN64)

Year offered: 2008
Admissions: No
CRICOS code: 006362C
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)

Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.

Total credit points: 96
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Associate Professor Bambang Trigunarsyah (Course Leader)
Campus: Gardens Point

Entry Requirements
A relevant bachelor degree from an approved tertiary institution; OR successful completion in CN81 Graduate Certificate in Project Management with a grade point average of 5.0 or better, OR qualifications deemed equivalent to the above by the Dean of Faculty on the recommendation of the course coordinator; AND at least three years of appropriate industry experience after graduation. Students who commence mid-year should enrol in semester 2 units.

Overview
This program is designed to help you advance your professional project management career. Career opportunities are excellent in both public and private sectors, and salaries approach the highest in any industry.

Course Structure
In the Graduate Diploma students complete coursework units from the Masters degree with a range of elective options available. Variations to the recommended study program require prior approval from the course coordinator. School electives are offered subject to an appropriate enrolment each semester.

Persons admitted to the Graduate Diploma who are graduates of the Graduate Certificate in Project Management (CN81) will need to submit an application for Academic Credit form for the units they have already completed.

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course structure - February entry

Full-time Course Structure - Year 1 - Semester 1
CNP520 Project Management
CNP521 Project Cost and Risk Management
CNP532 Innovation and Technology Management
CNP551 Project Human Resource Management

Year 1 - Semester 2
CNP533 Project Management Law
CNP534 International Project Management
Two electives from Electives List

Part-time Course Structure - Year 1 - Semester 1
CNP520 Project Management
CNP521 Project Cost and Risk Management

Year 1 - Semester 2
CNP533 Project Management Law
CNP534 International Project Management

Year 2 - Semester 2
Two electives from Electives List

Course structure - Mid Year entry

Full-time Course Structure - Year 1 - Semester 2
CNP520 Project Management
CNP533 Project Management Law
CNP534 International Project Management
1 elective from Electives List

Year 2 - Semester 1
CNP521 Project Cost and Risk Management
CNP532 Innovation and Technology Management
CNP551 Project Human Resource Management
1 elective from Electives List

Part-time Course Structure - Year 1 - Semester 2
CNP520 Project Management
CNP533 Project Management Law

Year 2 - Semester 1
CNP521 Project Cost and Risk Management
CNP551 Project Human Resource Management
### Year 2 - Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Notes</th>
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<tbody>
<tr>
<td>CNP534</td>
<td>International Project Management</td>
<td>1 elective from Electives List</td>
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</table>

### Year 3 - Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CNP532</td>
<td>Innovation and Technology Management</td>
<td>1 elective from Electives List</td>
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</table>

### Electives List

- BSN502 Research Methodology
- CNP545 Project Development
- CNP553 Information Technology for Project Managers
- CNP556 Property Management and Contracts
  Or other elective with the approval of the Course Coordinator.

### Potential Careers:

Construction Manager, Government Officer, Manager, Project Developer, Project Manager, Property Economist.
Master of Project Management (CN77)

Year offered: 2008
Admissions: No
CRICOS code: 016350B
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960;
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)

Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
Total credit points: 144
Standard credit points per full-time semester: 48

Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Associate Professor Bambang Trigunarsyah (Course Leader)
Campus: Gardens Point

Entry Requirements

A relevant bachelor degree from an approved tertiary institution and demonstrated potential in professional activity to undertake masters degree course, OR successful completion of CN64 Graduate Diploma in Project Management with a grade point average of 5.0 or better, OR qualifications deemed equivalent to the above by the Dean of the Faculty on the recommendation of the course coordinator, AND at least three years appropriate industry experience after graduation.

Overview

This program is designed to help you advance your professional project management career. The Project Management course provides generic project related skills essential for senior managers in a wide range of industries. Career opportunities are excellent in both public and private sectors, and salaries approach the highest in any industry.

Course Structure Information

The first two semesters full-time or four semesters part-time are identical to the Graduate Diploma in Project Management (CN64). Persons admitted to the Masters program who are graduates of the Graduate Diploma in Project Management (CN64) will need to submit an Application for Academic Credit form for the units they have already completed. At the completion of the coursework component of the Masters Degree program but before the completion of the Dissertation, students may elect to exit with the Graduate Diploma in Project Management.

International Student Entry

QUT advises that International Students may only enrol in full-time studies.

Further Information
### Course Structure - Year 2 - Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNN442-1</td>
<td>Dissertation</td>
</tr>
<tr>
<td>CNN442-2</td>
<td>Dissertation</td>
</tr>
<tr>
<td></td>
<td>Includes Research Methodology lectures and</td>
</tr>
<tr>
<td></td>
<td>incorporates Advanced Information Retrieval</td>
</tr>
<tr>
<td></td>
<td>Skills</td>
</tr>
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</table>

### Part-time Course Structure - Year 1 - Semester 2

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<th>Course Title</th>
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<tbody>
<tr>
<td>CNP520</td>
<td>Project Management</td>
</tr>
<tr>
<td>CNP533</td>
<td>Project Management Law</td>
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### Year 2 - Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CNP521</td>
<td>Project Cost and Risk Management</td>
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<tr>
<td>CNP551</td>
<td>Project Human Resource Management</td>
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</table>

### Year 2 - Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CNP534</td>
<td>International Project Management</td>
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<td></td>
<td>1 Elective</td>
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### Year 3 - Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CNP532</td>
<td>Innovation and Technology Management</td>
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<td>1 Elective</td>
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### Year 3 - Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CNN442-1</td>
<td>Dissertation</td>
</tr>
<tr>
<td></td>
<td>Includes Research Methodology lectures and</td>
</tr>
<tr>
<td></td>
<td>incorporates Advanced Information Retrieval</td>
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<tr>
<td></td>
<td>Skills</td>
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</tbody>
</table>

### Year 4 - Semester 1

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNN442-2</td>
<td>Dissertation</td>
</tr>
</tbody>
</table>

### Course Structure - Electives

#### Electives List (subject to availability)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSN502</td>
<td>Research Methodology</td>
</tr>
<tr>
<td>CNP545</td>
<td>Project Development</td>
</tr>
<tr>
<td>CNP553</td>
<td>Information Technology for Project Managers</td>
</tr>
<tr>
<td>CNP556</td>
<td>Property Management and Contracts</td>
</tr>
<tr>
<td></td>
<td>Or any other postgraduate unit with the</td>
</tr>
<tr>
<td></td>
<td>approval of the Course Coordinator.</td>
</tr>
</tbody>
</table>

**NOTE:**

- CNP553 is only offered in odd years.
- CNP545 may be offered in block format.

### Potential Careers:

Construction Manager, Government Officer, Manager, Project Developer, Project Manager, Property Economist.
Graduate Certificate in Project Management (CN81)

Year offered: 2008
Admissions: No
CRICOS code: 012705A
Course duration (full-time): 1 semester
Course duration (part-time): 1 year
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)
Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
Total credit points: 48
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Jay Yang
Discipline coordinator: Associate Professor Bambang Trigunarsyah (Course Leader)
Campus: Gardens Point

Entry Requirements
A relevant bachelor degree from an approved tertiary institution; OR Qualifications and/or extensive, relevant professional experience deemed equivalent to the above by the Dean of Faculty on the recommendation of the course coordinator; AND at least three years of appropriate industry experience after graduation.

Overview
This program is designed to help you advance your professional project management career. The Project Management course provides generic project related skills essential for senior managers in a wide range of industries. Career opportunities are excellent in both public and private sectors, and salaries approach the highest in any industry.

Course Structure
The first semester full-time or two semesters part-time are identical to the Graduate Diploma in Project Management (CN64). Students who complete the Graduate Certificate in Project Management (CN81) and are successful in gaining entry into the Graduate Diploma in Project Management (CN64) or Master of Project Management (CN77) will be eligible to receive credit for all units studied in the Graduate Certificate.
The full-time Graduate Certificate can only be completed in Semester 1 of any year. Students who commence mid-year should enrol in Semester 2 units.

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course structure - February entry

<table>
<thead>
<tr>
<th>Full-time Course Structure - Year 1, Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNP520 Project Management</td>
</tr>
<tr>
<td>CNP521 Project Cost and Risk Management</td>
</tr>
<tr>
<td>CNP532 Innovation and Technology Management</td>
</tr>
<tr>
<td>CNP551 Project Human Resource Management</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part-time Course Structure - Year 1, Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNP520 Project Management</td>
</tr>
<tr>
<td>CNP521 Project Cost and Risk Management</td>
</tr>
</tbody>
</table>

Year 1, Semester 2

| CNP533 Project Management Law                  |
| CNP534 International Project Management        |

Course structure - Mid Year entry (only available to part-time students)

<table>
<thead>
<tr>
<th>Part-time Course Structure - Year 1, Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNP520 Project Management</td>
</tr>
<tr>
<td>CNP533 Project Management Law</td>
</tr>
</tbody>
</table>

Year 2, Semester 1

| CNP521 Project Cost and Risk Management        |
| CNP551 Project Human Resource Management       |

Potential Careers:
Project Developer, Project Manager, Property Economist.
Doctor of Project Management (CN89)

Year offered: 2008
Admissions: Yes
CRICOS code: External course
Course duration (full-time): 3 years
Course duration (part-time): 6 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)
Domestic Entry: February; July
International Entry: February; July External course
Total credit points: 288
Course coordinator: Associate Professor Bambang Trigunarsyah

Entry Requirements
A Masters degree from a recognised university in an appropriate discipline area such as an MBA, project management, logistics, IT, or engineering where the fundamental elements of business and project management have been studied; or A first/upper second class honours degree (in which an additional year of research study has been undertaken above the undergraduate degree; and approximately 5 years of work experience within a project management environment. Continuing employment in a Project Management environment for the duration of the course and a full commitment to the course by the candidate and their employing organisation is also necessary.

Overview
The Doctor of Project Management is a three year professional doctorate degree, designed for candidates to consolidate and better understand their existing skills and knowledge on how to manage projects, while drawing from their professional experiences and real life scenarios for research initiatives.

This program is jointly delivered by QUT and RMIT. Candidates in the program will have access to the expertise and resources in both institutions.

The award will be a dual-logo joint parchment issued by QUT and RMIT.

Course Structure
The program enables project managers to reflect upon their widespread experience, learn new skills and gain insights into core strategic areas of required expertise such as knowledge management, project management leadership, project management procurement and ethics. Each of the four core areas is accompanied by a reflective learning course. These core areas are then further investigated through research study.

Four core units are undertaken during the first two years entail extensive small group work.

Career Outcomes
Completion of this course will provide you with the necessary expertise to assume strategic leadership roles in leading projects.

International Enrolments
The course is delivered in external mode through the internet. During the candidature, students will have the opportunity to have face to face sessions with lecturing staff, their supervisors or the course coordinator, however on-shore attendance at QUT in Brisbane, Australia is not compulsory.

Further Information
The Faculty of Built Environment and Engineering: Phone +61 7 3138 1424, Fax +61 7 3138 8381, e-mail: bee.research@qut.edu.au
WEB address: http://www.bee.qut.edu.au/research

Course structure - Full-time

<table>
<thead>
<tr>
<th>Full-time Course Structure - Year 1 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNP001 Knowledge and IT Management</td>
</tr>
<tr>
<td>CNP011 Knowledge and IT Management Reflective Learning</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNP002 Project Procurement and Ethics</td>
</tr>
<tr>
<td>CNP012 Project Procurement and Ethics Reflective Learning</td>
</tr>
<tr>
<td>CNP051 Research Project 1</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Year 1 - Summer Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNP052 Research Project 2</td>
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</table>

<table>
<thead>
<tr>
<th>Year 2 - Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNP003 Project Management Leadership</td>
</tr>
<tr>
<td>CNP013 Project Management Leadership Reflective Learning</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 - Semester 2</th>
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</thead>
<tbody>
<tr>
<td>CNP014 Elective Reflective Learning</td>
</tr>
<tr>
<td>CNP053 Research Project 3</td>
</tr>
<tr>
<td>Master's Elective *</td>
</tr>
<tr>
<td>*Note: Any relevant 12 credit point Master's unit as approved by the course coordinator.</td>
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</table>

<table>
<thead>
<tr>
<th>Year 2 - Summer Semester</th>
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<tbody>
<tr>
<td>CNP054 Research Project 4</td>
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<table>
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<tr>
<th>Year 3 - Semester 1</th>
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<tbody>
<tr>
<td>CNP061-1 Research Project 5</td>
</tr>
<tr>
<td>CNP061-2 Research Project 5</td>
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<table>
<thead>
<tr>
<th>Year 3 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNP062-1 Research Project 6</td>
</tr>
<tr>
<td>CNP062-2 Research Project 6</td>
</tr>
</tbody>
</table>
Part-Time Course Structure

Domestic students have the option of pursuing the course in part-time mode with enrolment and progression patterns recommended by the course coordinator.

Potential Careers:
Construction Manager, Project Developer, Project Manager, Property Development, Property Management.
Graduate Certificate in Property Economics (CN90)

**Year offered:** 2008
**Admissions:** No
**CRICOS code:** 036428G
**Course duration (full-time):** 1 semester
**Course duration (part-time):** 1 year
**Domestic fees (per credit point):** 2008: $135 per credit point (subject to annual review)
**Domestic fees (indicative):** 2008: Full fee tuition $12,960 per semester (subject to annual review)
**Domestic Entry:** This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
**International Entry:** This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
**Total credit points:** 48
**Standard credit points per part-time semester:** 24

**Course coordinator:** Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
**Discipline coordinator:** Associate Professor Bambang Trigunarsyah (Course Leader)
**Campus:** Gardens Point

**Entry Requirements**
A relevant bachelor degree from an approved tertiary institution; OR Qualifications and/or relevant training considered to be deemed equivalent to the above by the Dean of Faculty on the recommendation of the course coordinator; AND at least three years of appropriate industry experience.

**Related Courses**
Graduate Diploma in Property Economics(CN91), Master of Property Economics(CN92)

**Overview**
The aim of the course is to produce graduates capable of making sound and reasonable judgements in property performance evaluation. The course will provide students with a comprehensive understanding of property as an economic and financial asset; knowledge and skills to evaluate and manage property, a sense of ethical and professional responsibility and the application of these attributes in the property field.

**Course Structure**
In the Graduate Certificate and Graduate Diploma courses, students complete coursework units from the Masters degree with a range of elective options available. The full-time Graduate Certificate can only be completed in Semester 1 of any year. Students who commence mid-year should enrol in Semester 2 units.

**Majors**
While the course provides an overview of property as an asset there are majors in PROPERTY INVESTMENT AND MANAGEMENT and PROPERTY DEVELOPMENT. There are several common units across the majors however applicants are required to select one major.

**International Student Entry**
QUT advises that International Students may only enrol in full-time studies.

**Further Information**
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

**Course structure - February Entry**

<table>
<thead>
<tr>
<th>Full-time Course Structure - Property Development major - Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNP547 Property Investment</td>
</tr>
<tr>
<td>CNP555 Property Market Analysis</td>
</tr>
<tr>
<td>CNP520 Project Management</td>
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<tr>
<td>CNP521 Project Cost and Risk Management</td>
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</table>

<table>
<thead>
<tr>
<th>Full-time Course Structure - Property Investment and Management major - Semester 1</th>
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</thead>
<tbody>
<tr>
<td>CNP547 Property Investment</td>
</tr>
<tr>
<td>CNP555 Property Market Analysis</td>
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<tr>
<td>CNP556 Property Management and Contracts</td>
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<tr>
<td>EFN406 Managerial Finance</td>
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<table>
<thead>
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<th>Part-time Course Structure - Property Development major - Year 1 - Semester 1</th>
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<tbody>
<tr>
<td>CNP547 Property Investment</td>
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<tr>
<td>CNP555 Property Market Analysis</td>
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<table>
<thead>
<tr>
<th>Year 1 - Semester 2</th>
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</thead>
<tbody>
<tr>
<td>CNP545 Project Development</td>
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<tr>
<td>CNP554 Advanced Land Development</td>
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<table>
<thead>
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<th>Part-time Course Structure - Property Investment and Management major - Year 1 - Semester 1</th>
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</thead>
<tbody>
<tr>
<td>CNP547 Property Investment</td>
</tr>
<tr>
<td>CNP555 Property Market Analysis</td>
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<table>
<thead>
<tr>
<th>Year 1 - Semester 2</th>
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</thead>
<tbody>
<tr>
<td>CNP554 Advanced Land Development</td>
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<tr>
<td>CNP557 Property Finance and Capital Markets</td>
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<table>
<thead>
<tr>
<th>Course structure - Mid Year Entry (only available to part-time students)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part-time Course Structure - Property Development major - Year 1 - Semester 2</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>CNP545 Project Development</td>
</tr>
<tr>
<td>CNP554 Advanced Land Development</td>
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<table>
<thead>
<tr>
<th>Year 2 - Semester 1</th>
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</thead>
<tbody>
<tr>
<td>CNP547 Property Investment</td>
</tr>
<tr>
<td>CNP555 Property Market Analysis</td>
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### Part-time Course Structure - Property Investment and Management major - Year 1 - Semester 2

<table>
<thead>
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<tbody>
<tr>
<td>CNP554</td>
<td>Advanced Land Development</td>
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<tr>
<td>CNP557</td>
<td>Property Finance and Capital Markets</td>
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#### Year 2 - Semester 1

<table>
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<td>Property Investment</td>
</tr>
<tr>
<td>CNP555</td>
<td>Property Market Analysis</td>
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</tbody>
</table>

**Potential Careers:**

Construction Manager, Project Developer, Property Development, Property Economist, Property Management.
Graduate Diploma in Property Economics (CN91)

Year offered: 2008
Admissions: No
CRICOS code: 036429G
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)

Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
Total credit points: 96
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Associate Professor Bambang Trigunarsyah (Course Leader)
Campus: Gardens Point

Entry Requirements
A relevant bachelor degree from an approved tertiary institution; OR successful completion of CN90 Graduate Certificate in Property Economics with a grade point average of 5.0 or better; and at least three years of appropriate industry experience after graduation.

Related Courses
Graduate Certificate in Property Economics (CN90) Master of Property Economics (CN92)

Overview
The aim of the course is to produce graduates capable of making sound and reasonable judgements in property performance evaluation. The course will provide students with a comprehensive understanding of property as an economic and financial asset; knowledge and skills to evaluate and manage property, a sense of ethical and professional responsibility and the application of these attributes in the property field.

Course Structure
In the Graduate Certificate and Graduate Diploma courses, students complete coursework units from the Masters degree with a range of elective options available. Students who commence mid-year should enrol in Semester 2 units.

Majors
While the course provides an overview of property as an asset, there are majors in PROPERTY INVESTMENT AND MANAGEMENT and PROPERTY DEVELOPMENT. There are several common units across the majors however applicants are required to select one major.

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course structure

Full-time Course Structure- Property Development major - Year 1 - Semester 1
- CNP520 Project Management
- CNP521 Project Cost and Risk Management
- CNP547 Property Investment
- CNP555 Property Market Analysis

Year 1 - Semester 2
- CNP545 Project Development
- CNP554 Advanced Land Development
  Two Electives

Full-time Course Structure - Property Investment and Management major - Year 1 - Semester 1
- CNP547 Property Investment
- CNP555 Property Market Analysis
- CNP556 Property Management and Contracts
- EFN406 Managerial Finance

Year 1 - Semester 2
- CNP554 Advanced Land Development
- CNP557 Property Finance and Capital Markets
  Two Electives

Part-time Course Structure - Property Development major - Year 1 - Semester 1
- CNP547 Property Investment
- CNP555 Property Market Analysis

Year 1 - Semester 2
- CNP545 Project Development
- CNP554 Advanced Land Development

Year 2 - Semester 1
- CNP520 Project Management
- CNP521 Project Cost and Risk Management

Year 2 - Semester 2
  Two Electives

Part-time Course Structure - Property Investment and Management major - Year 1 - Semester 1
- CNP547 Property Investment
- CNP555 Property Market Analysis

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Year 1 - Semester 2
- CNP554  Advanced Land Development
- CNP557  Property Finance and Capital Markets

Year 2 - Semester 1
- CNP556  Property Management and Contracts
- EFN406  Managerial Finance

Year 2 - Semester 2
- Two Electives

Electives

Electives List (subject to availability)
- Specialist units from the other major
- BSN502  Research Methodology
- CNP533  Project Management Law
- CNP551  Project Human Resource Management
- CNP553  Information Technology for Project Managers
- EFN415  Security Analysis
- Or others with the approval of the Course Coordinator.
  (CNP553 is only offered in odd years)

Potential Careers:
Project Developer, Property Development, Property Economist, Property Management.
Master of Property Economics (CN92)

Year offered: 2008
Admissions: No
CRICOS code: 036432A
Course duration (full-time): 1.5 years
Course duration (part-time): 3 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: $12,960 per semester (subject to annual review)
Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
Total credit points: 144
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Associate Professor Bambang Trigunarsyah (Course Leader)
Campus: Gardens Point

Entry Requirements
A relevant three-year bachelor degree; OR Successful completion of CN91 Graduate Diploma in Property Economics with a grade point average of 5.0 or above; and at least three years appropriate industry experience after graduation.

Overview
The aim of the course is to produce graduates capable of making sound and reasonable judgements in property performance evaluation. The course will provide students with a comprehensive understanding of property as an economic and financial asset; knowledge and skills to evaluate and manage property, a sense of ethical and professional responsibility and the application of these attributes in the property field.

Additional Information
The first two semesters full-time or four semesters part-time are identical to the Graduate Diploma in Property Economics (CN91). Persons admitted to the Masters program who are graduates of the Graduate Diploma in Property Economics (CN91) will need to submit an Application for Academic Credit form for the units they have already completed.

At the completion of the coursework component of the Masters Degree program but before the completion of the Dissertation, students may elect to exit with the Graduate Diploma in Property Economics.

Majors
While the course provides an overview of property as an asset, there are majors in Property Investment and Management and Property Development. There are several common units across the majors however applicants are required to select one major.

Course Structure
Variations to the recommended study program require prior approval from the course coordinator.

Students who commence mid-year should enrol in Semester 2 units.

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

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<tr>
<th>Year 1 - Semester 2</th>
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</thead>
<tbody>
<tr>
<td>CNP545 Project Development</td>
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<tr>
<td>CNP554 Advanced Land Development</td>
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<tr>
<td>Two Electives</td>
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</table>

<table>
<thead>
<tr>
<th>Year 2 - Semester 1</th>
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</thead>
<tbody>
<tr>
<td>CNN442-1 Dissertation</td>
</tr>
<tr>
<td>CNN442-2 Dissertation (includes Research Methodology and Information Retrieval Skills lectures)</td>
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</table>

<table>
<thead>
<tr>
<th>Full-time Course Structure - Property Investment and Management Major - Year 1 - Semester 1</th>
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<tbody>
<tr>
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<tr>
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<table>
<thead>
<tr>
<th>Part-time Course Structure - Property Development Major - Year 1 - Semester 1</th>
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<tbody>
<tr>
<td>Course Structure - Property Investment and Management Major - Year 1 - Semester 1</td>
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<tr>
<td>CNP547 Property Investment</td>
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</table>

| Year 2 - Semester 1                                                          |
| CNP554 Advanced Land Development                                             |
| CNP557 Property Finance and Capital Markets                                  |

| Year 2 - Semester 2                                                          |
| Two Electives                                                                |

| Year 3 - Semester 1                                                          |
| CNN442-1 Dissertation                                                        |
| (includes Research Methodology and Information Retrieval Skills lectures)  |

| Year 3 - Semester 2                                                          |
| CNN442-2 Dissertation                                                        |

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| Year 2 - Semester 1                                                                  |
| CNP554 Advanced Land Development                                                    |
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| Year 2 - Semester 2                                                                  |
| Two Electives                                                                         |

| Year 3 - Semester 1                                                                  |
| CNN442-1 Dissertation                                                                |
| (includes Research Methodology and Information Retrieval Skills lectures)            |

| Year 3 - Semester 2                                                                  |
| CNN442-2 Dissertation                                                                |

### Potential Careers:
Project Developer, Property Development, Property Economist, Property Management.

### Course Structure - Electives

**Electives List (subject to availability)**
- Specialisation units from the other major
- BSN502 Research Methodology
- CNP533 Project Management Law
- CNP551 Project Human Resource Management
- CNP553 Information Technology for Project Managers
- EFN415 Security Analysis

Or others with the approval of the Course Coordinator.
(CNP553 is only offered in odd years.)
Graduate Diploma in Urban Design
(DB69)

Year offered: 2008
Admissions: No
CRICOS code: 014018G
Course duration (full-time): 1 year
Course duration (part-time): 1.5 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)
Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
Total credit points: 96
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Jay Yang (Please refer all course enquiries to Course Leader.)
Discipline coordinator: Dr Kathi Holt-Damant (Course Leader)
Campus: Gardens Point

Overview
Urban Design is primarily concerned with improving through design, the relationship between the many elements that make up urban areas. The course enhances your professional skills through developing an understanding of the social, economic, physical, historical, political, and legal processes which influence the form and structure of urban areas. Particular emphasis is placed on communication skills.

Entry Requirements
A Bachelor of Built Environment in a related discipline with a grade point average of 5 or better and demonstrated potential in a relevant professional activity or a degree or postgraduate qualification, relevant to Urban Design, with the grade point average of 5 or better and demonstrated potential in a relevant professional activity.

Applicants may be granted provisional entry to this course with a modified enrolment program on the basis of alternative academic or professional attainments.

You may be required to undertake a qualifying program to develop design literacy and graphic skills. A three-module full fee paying Summer unit is available for this purpose. Computer literacy is also required.

Course Requirements
Students must complete a minimum of 48 credit points per semester in the full-time course and a minimum of 24 credit points per semester in the part-time course. Students with a grade point average of 5 or better may articulate into the Masters program after one semester full-time or two semesters part-time study.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course structure - February Entry

<table>
<thead>
<tr>
<th>Full-time Structure - Year 1, Semester 1</th>
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<tbody>
<tr>
<td>DBP403 Design Communication</td>
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<td>(DBP403 is a condition of entry for students without a design background and is to be undertaken in workshop mode early in February.)</td>
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<tr>
<td>ARB081 History, Theory and Criticism of Urban Design</td>
</tr>
<tr>
<td>ARB082 Urban Design Studio B</td>
</tr>
<tr>
<td>PSP453 Urban Systems and the Physical Environment</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1, Semester 2</th>
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</thead>
<tbody>
<tr>
<td>PSN214 Elective</td>
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<tr>
<td>OR</td>
</tr>
<tr>
<td>PSN211 Research Project 1</td>
</tr>
<tr>
<td>PSP451 Production and Use of the Built Environment</td>
</tr>
<tr>
<td>PSP452 Urban Design Studio A</td>
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<table>
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<td>PSP451 Production and Use of the Built Environment</td>
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<tr>
<th>Year 2, Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARB082 Urban Design Studio B</td>
</tr>
<tr>
<td>PSN214 Elective</td>
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<td>OR</td>
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<tr>
<td>PSN211 Research Project 1</td>
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Course structure - Mid Year Entry

<table>
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<tr>
<th>Full-time Structure - Year 1, Semester 2</th>
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<td>PSN214 Elective</td>
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<tr>
<td>PSP453 Urban Systems and the Physical Environment</td>
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| DBP403 Design Communication |

____________________________________________________________________________BUILT ENVIRONMENT AND ENGINEERING

__________________________________________________________________________________________________________________
DBP403 is a condition of entry for students without a design background and is to be undertaken in workshop mode early in February.

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ARB081</td>
<td>History, Theory and Criticism of Urban Design</td>
</tr>
<tr>
<td>ARB082</td>
<td>Urban Design Studio B</td>
</tr>
<tr>
<td>PSP453</td>
<td>Urban Systems and the Physical Environment</td>
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<thead>
<tr>
<th>Part-time Structure - Year 1, Semester 2</th>
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<tbody>
<tr>
<td>PSP451</td>
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<tr>
<td>PSP452</td>
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<tr>
<th>Year 2, Semester 1</th>
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</thead>
<tbody>
<tr>
<td>DBP403</td>
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<tr>
<td>ARB081</td>
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<td>PSP453</td>
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<th>Year 2, Semester 2</th>
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</thead>
<tbody>
<tr>
<td>PSN214</td>
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<tr>
<td>PSN211</td>
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<table>
<thead>
<tr>
<th>Year 3, Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARB082</td>
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</tbody>
</table>

**Potential Careers:**

Urban and Regional Planner, Urban Designer.
Master of Built Environment (Urban Design) (DB73)

Year offered: 2008
Admissions: No
CRICOS code: 003475G

Course duration (full-time): 3 semesters including Summer semester
Course duration (part-time): 5 semesters

Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960 per semester (subject to annual review)

Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.

International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.

Total credit points: 144
Standard credit points per full-time semester: 48
Standard credit points per part-time semester: 24

Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Dr Kathi Holt-Damant (Course Leader)
Campus: Gardens Point

Overview
Urban design is primarily concerned with improving through design, the relationship between the many elements that make up urban areas: buildings, places, spaces and movement and service systems. The course aims to enhance your professional skills through developing an understanding of the social, economic, physical, historical, political, and legal processes which influence the form and structure of urban areas. Particular emphasis is placed on communication skills.

Entry Requirements
Applicants are considered initially for acceptance in the Graduate Diploma in Urban Design. At the completion of 48 credit points students will be considered for articulation to the Master of Built Environment (Urban Design) subject to a grade point average of 5.0 or better in the course.

Applicants may be granted provisional entry to the Graduate Diploma courses with a modified enrolment program on the basis of alternative academic or professional attainments. Some applicants may be required to undertake a qualifying program to develop design literacy and graphic skills. A three-module full-fee paying Summer unit is normally available for this purpose. Computer Literacy is also required.

Focus in the Masters Program
The masters program includes skills and knowledge development through set coursework in common with the Graduate Diploma in Urban Design, but also requires individual research and the writing of a dissertation. An Urban Design Master Studio is conducted over the Summer semester.

Master of Built Environment (Urban Design)
The normal progression will extend the graduate diploma program by a flexibly delivered summer semester (see Course Structure) for part-time and full-time students. Articulation from the graduate diploma to the masters level program will be available after one semester full-time or two semesters part-time provided that applicants have completed the preceding course work with a grade point average of 5.0 or better.

International Student Entry
QUT advises that international students may only enrol in full-time studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course structure - February Entry

Year 1 - Semester 1 Full-Time Structure

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<th>Code</th>
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<tbody>
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<tr>
<td>ARB081</td>
<td>History, Theory and Criticism of Urban Design</td>
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<tr>
<td>ARB082</td>
<td>Urban Design Studio B</td>
</tr>
<tr>
<td>PSP453</td>
<td>Urban Systems and the Physical Environment</td>
</tr>
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</table>

Year 1 - Semester 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>PSN211</td>
<td>Research Project 1</td>
</tr>
<tr>
<td>PSP451</td>
<td>Production and Use of the Built Environment</td>
</tr>
<tr>
<td>PSP452</td>
<td>Urban Design Studio A</td>
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Summer Program

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<tr>
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<tbody>
<tr>
<td>ARB083</td>
<td>Urban Design Masters Studio</td>
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<tr>
<td>PSN212</td>
<td>Research Project 2</td>
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<tr>
<td>PSP510</td>
<td>Specialisation</td>
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Year 1 - Semester 1 Part-Time Structure

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Year 1 - Semester 2

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Year 2 - Semester 1

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<td>ARB082</td>
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### Year 2 - Semester 2

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#### Summer Program

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### Course structure - Mid Year Entry

#### Year 1 - Semester 2 Full-Time Structure

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#### Year 1 - Summer Program

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#### Year 2 - Semester 1

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#### Year 1 - Semester 2 Part-Time Structure

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#### Year 2 - Semester 1

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<tr>
<td></td>
<td>(DBP403 is a condition of entry for students without a design background and is to be undertaken in workshop mode early in February.)</td>
</tr>
<tr>
<td>ARB081</td>
<td>History, Theory and Criticism of Urban Design</td>
</tr>
<tr>
<td>ARB082</td>
<td>Urban Design Studio B</td>
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#### Year 2 - Semester 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
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<tbody>
<tr>
<td>PSN211</td>
<td>Research Project 1</td>
</tr>
<tr>
<td>PSP510</td>
<td>Specialisation</td>
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#### Year 2 - Summer Program

<table>
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<tr>
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<th>Course</th>
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<tbody>
<tr>
<td>ARB083</td>
<td>Urban Design Masters Studio</td>
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#### Year 3 - Semester 1

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<thead>
<tr>
<th>Code</th>
<th>Course</th>
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<tbody>
<tr>
<td>PSN212</td>
<td>Research Project 2</td>
</tr>
<tr>
<td>PSP453</td>
<td>Urban Systems and the Physical Environment</td>
</tr>
</tbody>
</table>

### Potential Careers:

- Urban and Regional Planner.
Bachelor of Design (Architectural Studies) (DE40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056386C
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth supported place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,741
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412372
Past rank cut-off: 86
Past OP cut-off: 8
OP Guarantee: Yes
Assumed knowledge: English (4, SA)
Preparatory studies: ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Ms Sheona Thomson
Discipline coordinator: Mr Paul Sanders
Campus: Gardens Point

IMPORTANT: SPECIAL NOTE
In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Additional Admission Information
Applicants who are offered a place and eligible to receive 168 credit points (or more) of advanced standing will be admitted to AR48 Bachelor of Architecture.

Career Outcomes
The Bachelor of Design (Architectural Studies) is a four-year full-time pre-professional degree in architecture. Graduates of this course may articulate into the Master of Architecture.

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 Bachelor of Architecture gives graduates exciting career choices and the opportunity to travel and work in Australia or overseas.

Overview
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.

Professional Recognition
Graduates of the Bachelor of Design (Architectural Studies) with a grade point average of 4 or better will be eligible for entry into the Master of Architecture.

Provisional accreditation for the Bachelor of Design (Architectural Studies) and the Master of Architecture has been given by the Architecture Accreditation Council of Australia. Full accreditation will be sought in 2010 when the first cohort graduates from the Master of Architecture.

Further Information
The School of Design - Phone +61 7 3864 2626, Fax +61 7 3864 5280, email: bee.enquiries@qut.com

Minors
You will be able to select from two 4 unit approved minors or one 8 unit approved major to enhance and broaden your knowledge in a related field or an area of interest.

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances. Find out more on deferment.

Course structure

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
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<tbody>
<tr>
<td>BEB100 Introducing Professional Learning</td>
</tr>
<tr>
<td>DAB110 Introductory Architectural Design 1</td>
</tr>
<tr>
<td>DEB101 Introducing Design</td>
</tr>
<tr>
<td>DEB102 Introducing Design History</td>
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<table>
<thead>
<tr>
<th>Year 1 - Semester 2</th>
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</thead>
<tbody>
<tr>
<td>BEB200 Introducing Sustainability</td>
</tr>
<tr>
<td>DAB210 Introductory Architectural Design 2</td>
</tr>
<tr>
<td>DAB220 Theories and Contexts of Place in Architecture</td>
</tr>
<tr>
<td>DEB201 Digital Communication</td>
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<tr>
<th>Year 2 - Semester 1</th>
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<tbody>
<tr>
<td>DAB310 Architectural Design 3</td>
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<tr>
<td>DAB325 Architecture in the 20th Century</td>
</tr>
<tr>
<td>DAB330 Integrated Technologies 1</td>
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<td>Year 2 - Semester 2</td>
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<tr>
<td>----------------------------------------</td>
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<tr>
<td>DAB410       Architectural Design 4</td>
</tr>
<tr>
<td>DAB420       Architecture, Culture and Space</td>
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<td>DAB435       Architectural Technology 1</td>
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<tr>
<td>DAB510       Architectural Design 5</td>
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<tr>
<td>DAB525       Architecture and the City</td>
</tr>
<tr>
<td>DAB530       Integrated Technologies 2</td>
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<tbody>
<tr>
<td>DAB610       Architectural Design 6</td>
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<td>DAB635       Architectural Technology 2</td>
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<tr>
<td>DEB601       Collaborative Design</td>
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<tr>
<th>Year 4 - Semester 1</th>
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<tbody>
<tr>
<td>DAB710       Architectural Design 7</td>
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<td>DEB701       Design and Research</td>
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<td>Second Major/Minor unit</td>
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<th>Year 4 - Semester 2</th>
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<tbody>
<tr>
<td>DAB810       Architectural Design 8</td>
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<tr>
<td>DEB801       Professional Practice</td>
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<td>Second Major/Minor unit</td>
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<td>Second Major/Minor unit</td>
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**Potential Careers:**
Architect.
Bachelor of Design (Industrial Design) (DE40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056386C
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth supported place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,741
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412382
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA)
Preparatory studies: ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Ms Sheona Thomson
Discipline coordinator: Mr Andrew Scott
Campus: Gardens Point

IMPORTANT - SPECIAL NOTE
In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Additional Admission Information
Applicants who are offered a place and eligible to receive 168 credit points (or more) of advanced standing will be admitted to BN31 Bachelor of Built Environment (Industrial Design).

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 useability, costs, materials, technology or environment. They research 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.

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

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 (ISCID).

Minors
You will be able to select from two 4 unit approved minors or one 8 unit approved major to enhance and broaden your knowledge in a related field or an area of interest.

Further Information
The School of Design - Phone +61 7 3864 2626, Fax +61 7 3864 5280, email: bee.enquiries@qut.com
Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Course structure

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
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<tbody>
<tr>
<td>BEB100</td>
<td>Introducing Professional Learning</td>
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<tr>
<td>DEB101</td>
<td>Introducing Design</td>
</tr>
<tr>
<td>DEB102</td>
<td>Introducing Design History</td>
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<tr>
<td>DNB101</td>
<td>Industrial Design 1</td>
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<th>Year 1 - Semester 2</th>
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<td>BEB200</td>
<td>Introducing Sustainability</td>
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<td>DEB201</td>
<td>Digital Communication</td>
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<tr>
<td>DNB201</td>
<td>Industrial Design 2</td>
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<tr>
<td>DNB202</td>
<td>Product Usability</td>
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<td>DNB301</td>
<td>Industrial Design 3</td>
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<td>DNB302</td>
<td>Computer Aided Industrial Design</td>
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<td>Manufacturing Technology</td>
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<td>DNB402</td>
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<td>Second Major/Minor unit</td>
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<tbody>
<tr>
<td>DNB501</td>
<td>Industrial Design 5</td>
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<td>DNB502</td>
<td>Industrial Design History, Theory and Criticism</td>
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<td>Year 3 - Semester 2</td>
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<tr>
<td>DEB601</td>
<td>Collaborative Design</td>
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<tr>
<td>DNB601</td>
<td>Industrial Design 6</td>
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<tr>
<td>DNB602</td>
<td>New Product Development</td>
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<td>DNB801</td>
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<tr>
<td>DNB802</td>
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<td>Second Major/Minor unit</td>
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**Potential Careers:**

Industrial Designer.
Bachelor of Design (Interior Design) (DE40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056386C
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,741
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412362
Past rank cut-off: 83
Past OP cut-off: 9
OP Guarantee: Yes
Assumed knowledge: English (4, SA)
Preparatory studies: ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Ms Sheona Thomson
Discipline coordinator: Ms Petina Rock and Mr Mark Taylor
Campus: Gardens Point

IMPORTANT - SPECIAL NOTE
In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Additional Admission Information
Applicants who are offered place and eligible to receive 168 credit points (or more) of advanced standing will be admitted to BN31 Bachelor of Built Environment (Interior Design).

Careers Outcomes
Interior designers plan and execute 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 practice in South-East Asia and bid competitively for international commissions.

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

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.

Minors
You will be able to select from two 4 unit approved minors or one 8 unit approved major to enhance and broaden your knowledge in a related field or an area of interest.

Further Information
The School of Design - Phone +61 7 3864 2626, Fax +61 7 3864 5280, email: bee.enquiries@qut.com

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

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<tr>
<th>Year 1 - Semester 1</th>
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<tbody>
<tr>
<td>BEB100 Introducing Professional Learning</td>
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<tr>
<td>DEB101 Introducing Design</td>
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<tr>
<td>DEB102 Introducing Design History</td>
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<tr>
<td>DTB101 Interior Design 1</td>
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<thead>
<tr>
<th>Year 1 - Semester 2</th>
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<tbody>
<tr>
<td>BEB200 Introducing Sustainability</td>
</tr>
<tr>
<td>DEB201 Digital Communication</td>
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<tr>
<td>DTB201 Interior Design 2</td>
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<tr>
<td>DTB202 Design Technology</td>
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<tr>
<th>Year 2 - Semester 1</th>
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</thead>
<tbody>
<tr>
<td>DTB301 Interior Design 3</td>
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<td>DTB302 Colour Studies</td>
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<td>DTB303 Technical Design</td>
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<th>Year 2 - Semester 2</th>
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<td>DTB401 Interior Design 4</td>
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<td>DTB402 Interior Systems</td>
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<td>DTB403 Human Environment</td>
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<th>Year 3 - Semester 1</th>
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<tbody>
<tr>
<td>DTB501 Interior Design 5</td>
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<td>DTB502 Environments in Transition</td>
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<tr>
<td>DTB503 Furniture Studies</td>
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</table>
Year 3 - Semester 2
DEB601  Collaborative Design
DTB601  Interior Design 6
DTB602  Design in Society
        Second Major/Minor unit

Year 4 - Semester 1
DEB701  Design and Research
DTB701  Interior Design 7
        Second Major/Minor unit
        Second Major/Minor unit

Year 4 - Semester 2
DEB801  Professional Practice
DTB801  Interior Design 8
        Second Major/Minor unit
        Second Major/Minor unit

Potential Careers:
Interior Designer.
Bachelor of Design (Landscape Architecture) (DE40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056386C
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth supported place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,741
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412342
Past rank cut-off: 74
Past OP cut-off: 13
OP Guarantee: Yes
Assumed knowledge: English (4, SA)
Preparatory studies: ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Ms Sheona Thomson
Discipline coordinator: Dr Jeannie Sim
Campus: Gardens Point

IMPORTANT - SPECIAL NOTE
In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Additional Admission Information
Applicants who are offered a place and eligible to receive 168 credit points (or more) of advanced standing will be admitted to BN31 Bachelor of Built Environment (Landscape Architecture).

Career Outcomes
Landscape Architecture is predominantly a young profession with an increasing number of female practitioners. Sixty per cent of the profession is employed in private consultancies 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.

Overview
Landscape Architecture is concerned with the ordered design of open spaces at all scales: the appearance, atmosphere, and suitability of environment to assure its health and welfare and that of its inhabitants. Your course covers landscape theory and design, professional values, environment theory, graphic and other communication, and landscape construction supported by project and field work.

Minors
You will be able to select from two 4 unit approved minors or one 8 unit approved major to enhance and broaden your knowledge in a related field or an area of interest.

Professional Recognition
Professional accreditation is being sought from the Australian Institute of Landscape Architects.

Further Information
The School of Design - Phone +61 7 3864 2626, Fax +61 7 3864 5280, email: bee.enquiries@qut.com

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Course structure

Year 1 - Semester 1
BEB100 Introducing Professional Learning
DEB101 Introducing Design
DEB102 Introducing Design History
DLB130 Introducing Landscape Design

Year 1 - Semester 2
BEB200 Introducing Sustainability
DEB201 Digital Communication
DLB210 Environmental Design 1
DLB230 Environmental Design 2

Year 2 - Semester 1
DLB310 People and Place
DLB330 People and Environment
Second Major/Minor unit
Second Major/Minor unit

Year 2 - Semester 2
DLB410 Creative Site Design 1
DLB430 Physical Site Design
Second Major/Minor unit
Second Major/Minor unit

Year 3 - Semester 1
DLB510 Creative Site Design 2
DLB525 History and Criticism of Landscape Design
<table>
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<tbody>
<tr>
<td>DEB601</td>
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<td>DLB630</td>
<td>Advanced Landscape Construction</td>
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<td>DLB645</td>
<td>Regulating the Built Environment</td>
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<tbody>
<tr>
<td>DEB701</td>
<td>Design and Research</td>
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<tr>
<td>DLB710</td>
<td>Urban Design Futures</td>
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<td>DLB730</td>
<td>Advanced Project 1</td>
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<tbody>
<tr>
<td>DEB801</td>
<td>Professional Practice</td>
</tr>
<tr>
<td>DLB810</td>
<td>Landscape Planning</td>
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<tr>
<td>DLB830</td>
<td>Advanced Project 2</td>
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<tr>
<td></td>
<td>Second Major/Minor unit</td>
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</tbody>
</table>

**Potential Careers:**

Landscape Architect.
Master of Design (Urban Design) (DE50)

Year offered: 2008
Admissions: Yes
CRICOS code: 060812M
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: $12,960 per semester (subject to annual review)
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)

Domestic Entry: February and July
International Entry: February and July
Total credit points: 96
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Jay Yang (Please refer course specific enquiries to Course Leader.)
Discipline coordinator: Dr Kathi Holt-Damant (Course Leader)
Campus: Gardens Point

Overview
The Master of Design addresses the issues of professional development in the design fields of built environment and engineering. It aims to enhance and advance your skills and understanding of the design disciplines through explorations in social, historic, economic, legal, and technological processes and systems that act upon our environments and products. This course advances abilities in visual and design literacy, communication, and design processes, through the integration of aspects of sustainability, project management, leadership, and design project applications. Early exit with a Graduate Diploma is available upon completion of four units in the course.

Entry Requirements
A four-year full-time bachelor degree in a relevant discipline area, or equivalent qualification determined by the Faculty, and a grade point average of 5.0 or more (on a 7-point scale) in that study. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering. If requested, supply documentation of professional work experience as detailed in Completing the PG Form. four-year full-time bachelor degree in a relevant discipline area, or equivalent qualification determined by the Faculty, and a grade point average of 5.0 or more (on a 7-point scale) in that study. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

Career Outcomes
Graduates may choose to become specialist urban designers within their chosen professional field, or use the skills and knowledge gained to diversify their capabilities across a broader spectrum of design disciplines. In particular this course provides the skills and knowledge to become a leader and manager of urban design processes, both in the development and implementation of urban design policy and urban design practice. Graduates may typically work in either private practice as urban designers, or in government organisations as urban policy developers and implementers.

International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course structure - February Entry

<table>
<thead>
<tr>
<th>Full-time Course Structure - Year 1, Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEN610  Project Management Principles</td>
</tr>
<tr>
<td>DEN510  Urban Design Theory</td>
</tr>
<tr>
<td>GSN235  Communication, Negotiation and Leadership</td>
</tr>
<tr>
<td>Elective</td>
</tr>
</tbody>
</table>

Year 1, Semester 2

| BEN710  Sustainable Practice in Built Environment and Engineering |
| BEN910  Integrated Project                                       |
| DEN520  Urban Design and Theory Studio B                         |
| Elective                                                        |

Part-time Course Structure - Year 1, Semester 1

| BEN610  Project Management Principles          |
| DEN510  Urban Design Theory                    |

Year 1, Semester 2

| DEN520  Urban Design and Theory Studio B        |
| Elective                                       |

Year 2, Semester 1

| GSN235  Communication, Negotiation and Leadership |
| Elective                                       |

Year 2, Semester 2

| BEN710  Sustainable Practice in Built Environment and Engineering |
| BEN910  Integrated Project                                       |

Course structure - Mid Year Entry

| BEN610  Project Management Principles          |
| DEN510  Urban Design Theory                    |

Year 1, Semester 2

| DEN520  Urban Design and Theory Studio B        |
| Elective                                       |

Year 2, Semester 1

| GSN235  Communication, Negotiation and Leadership |
| Elective                                       |

Year 2, Semester 2

| BEN710  Sustainable Practice in Built Environment and Engineering |
| BEN910  Integrated Project                                       |
### Year 1, Semester 1
- BEN610  Project Management Principles
- BEN910  Integrated Project
- DEN510  Urban Design Theory
- Elective

### Part-time Course Structure - Year 1, Semester 2
- BEN710  Sustainable Practice in Built Environment and Engineering
- Elective

### Year 2, Semester 1
- BEN610  Project Management Principles
- DEN510  Urban Design Theory

### Year 2, Semester 2
- DEN520  Urban Design and Theory Studio B
- GSN235  Communication, Negotiation and Leadership

### Year 3, Semester 1
- BEN910  Integrated Project
- Elective

### Electives
- UDN510  Urban Planning Practice
- UDN512  Community Planning
- UDN514  Regional Planning Practice
- UDN572  Infrastructure Planning and Management
- UDN576  Transportation Infrastructure
Bachelor of Engineering (Electrical and Computer Engineering) (EE41)

Year offered: 2008
Admissions: No
CRICOS code: 003490G
Course duration (full-time): 4 years

**Domestic fees (per credit point):** Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)

**Domestic fees (indicative):** 2008: $20,928; CSP $6,163

**International Fees (per semester):** 2008: $11,184 per semester (subject to annual review)

**Domestic Entry:** February and July
**International Entry:** February (July entry available to students with Advanced Standing)

**QTAC code:** 412502; Dfee: 412506

Past rank cut-off: 80. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.

**OP Guarantee:** Yes

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Dr R.Mahalinga-Iyer
Discipline coordinator: Dr Bouchra Senadji
Campus: Gardens Point

**Additional Admission Information**

The EE41 Bachelor of Engineering (Electrical and Computer Engineering) course has been replaced by EN40 Bachelor of Engineering (Electrical) from 2006 onwards. There will be no intake into the EE41 course in 2008 with the exception of QTAC applicants commencing their studies with at least 240 credit points of advanced standing (academic credit); i.e. those students who will be starting in the fourth year of the program.

If offered a place you are required to attend an in-person academic credit and enrolment session as detailed in your enrolment materials.

**Career Outcomes**

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

**Overview**

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.

**Professional Recognition**

This degree meets the requirements for membership of Engineers Australia and the Institution of Radio and Electronics Engineers Australia. It is professionally recognised by many international professional institutions including the Professional Engineers Board Singapore.

**Minors**

Subject to the approval of the course coordinator, students may be able to choose a minor area of study. A minor is a collection of four units from the one study area, that totals 48 credit points. This will not affect the total number of credit points required for course completion. Students may choose from the list of minors, available from the office of the Faculty of Built Environment and Engineering.

**Mid-year Entry**

The EE42 Bachelor of Engineering (Electrical and Computer Engineering) course has been replaced by EN40 Bachelor of Engineering (Electrical) from 2006 onwards. There will be no midyear intake into the EE42 course in 2007 with the exception of QTAC applicants commencing their studies with at least 168 credit points of advanced standing (academic credit).

If offered a place, you may be required to attend an in-person academic credit and enrolment session as detailed in your enrolment materials.

**Industry Cooperative Education Program**

High achieving domestic students in third year may also be eligible to participate in the Industry Cooperative Education Program, based on a three-way partnership between the student, University and industry, and involving a full-time, one semester, paid and supervised workplace position with the industry partner.

**Special Course Requirements**

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

**Further Information**

Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

**Deferment**

QUT's deferment policy does not apply to this course.

**Course structure - Full-time**

<table>
<thead>
<tr>
<th>Year 4 - Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEB781  Professional Studies 2</td>
</tr>
<tr>
<td>EEB889-1  Project</td>
</tr>
<tr>
<td>Students normally enrol in EEB889-1 in semester one.</td>
</tr>
<tr>
<td>Elective Unit 1 (Technical)</td>
</tr>
<tr>
<td>Elective Unit 2 (Technical)</td>
</tr>
</tbody>
</table>
### Year 4 - Semester 2

**EEB889-2 Project**

Students normally enrol in EEB889-2 in semester two.

- General Elective
- Elective Unit 3 (Technical)
- Elective Unit 4 (Technical)

Students in this course must complete 60 days industrial experience before graduating.

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### Industry Cooperative Education Program

At the commencement of Year 3, Semester 1, eligible students may be invited to apply for a place in the Industry Cooperative Education Program. (See Course Structure.)

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### Electives

<table>
<thead>
<tr>
<th>Elective Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEB766</td>
<td>RF Communication Technologies</td>
</tr>
<tr>
<td>EEB911</td>
<td>Electrical Energy Systems</td>
</tr>
<tr>
<td>EEB941</td>
<td>Modern Signal Processing</td>
</tr>
<tr>
<td>EEB960</td>
<td>Wireless Communications</td>
</tr>
<tr>
<td>EEB961</td>
<td>RF and Applied Electromagnetics</td>
</tr>
<tr>
<td>EEB976</td>
<td>Advanced Industrial Electronics</td>
</tr>
</tbody>
</table>

**NOTE:**

Please check unit availability, as not all units are offered every year.

At the discretion of the course coordinator students may be allowed to select an elective from any advanced topics offered by the University.

Also potential honours students may, with the approval of the course coordinator, select an elective from the postgraduate degree courses offered by the School of Engineering Systems.

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### Course structure - Industry Cooperative Education Program

#### Year 4 - Semester 1

**EEB781** Professional Studies 2

**EEB889-1 Project**

Students normally enrol in EEB889-1 in semester one

- Elective Unit 1 (Technical)
- Elective Unit 2 (Technical)

#### Year 4 - Semester 2

**ENB241** Software Systems Design

**EEB889-2 Project**

Students normally enrol in EEB889-2 in semester two

- Elective Unit 3 (Technical)
- Elective Unit 4 (Technical)

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### Potential Careers:

Electrical and Computer Engineer, Electrical Engineer.

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### Course Structure - EE42-Mid-year entry

#### Year 4 - Semester 1

**EEB781** Professional Studies 2

**EEB889-1 Project**

Students normally enrol in EEB889-1 in semester one

- Elective 1 (Technical)
- Elective 2 (Technical)

#### Year 4 - Semester 2

**EEB889-2 Project**

Students normally enrol in EEB889-2 in semester two

- General Elective
- Elective 3 (Technical)
- Elective 4 (Technical)

Students must complete 60 days Industrial Experience before Graduation
Bachelor of Engineering (Computer Systems) (EE46)

Year offered: 2008
Admissions: No
CRICOS code: 040309C
Course duration (full-time): 4 years

Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: $20,928; CSP $6,236
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)

Domestic Entry: February
International Entry: February
QTAC code: 412502; Dfee: 412506
Past rank cut-off: 80. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.
OP Guarantee: Yes
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Jasmine Banks
Campus: Gardens Point

Additional Admission Information
The EE46 Bachelor of Engineering (Computer Systems) course has been replaced by EN40 Bachelor of Engineering (Computer Systems) from 2006 onwards. There will be no intake into the EE46 course in 20078 with the exception of QTAC applicants commencing their studies with at least 240 credit points of advanced standing (academic credit); i.e. those students who will be starting in the fourth year of the program.

If offered a place you are required to attend an in-person academic credit and enrolment session as detailed in your enrolment materials.

Career Outcomes
Graduates will be employed as design engineers, software engineers, hardware engineers, computer system engineers, information systems engineers, research and development engineers and project managers.

Overview
Students will study units from both electrical engineering and computing from a computer-based systems perspective. The course aims to produce students who are employable as design engineers, software and hardware engineers, computer systems engineers, and information systems engineers.

Professional Recognition
The course is provisionally accredited by Engineers Australia (EA).

Optional Pathways
Students entering the Bachelor of Engineering (Electronics)/Bachelor of Information Technology course or the Bachelor of Engineering (Telecommunications) course can change to the Bachelor of Engineering (Computer Systems) at the end of the first year without loss of credit, subject to approval from the course coordinator and meeting minimum course requirements.

Special Course Requirements
Students must complete at least 60 days industrial experience in order to graduate.

Further Information
Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

Deferment
QUT's deferment policy does not apply to this course.

Course structure

<table>
<thead>
<tr>
<th>Year 4 - Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEB781 Professional Studies 2</td>
</tr>
<tr>
<td>EEB889-1 Project</td>
</tr>
<tr>
<td>Elective Unit 1</td>
</tr>
<tr>
<td>Elective Unit 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEB889-2 Project</td>
</tr>
<tr>
<td>General Elective</td>
</tr>
<tr>
<td>Elective Unit 3</td>
</tr>
<tr>
<td>Elective Unit 4</td>
</tr>
<tr>
<td>Students must complete 60 days industrial experience before graduating.</td>
</tr>
</tbody>
</table>

NOTE: For electives, please see Elective Unit List

Elective Unit List

**Electrical Engineering Elective Units**
- EEB941 Modern Signal Processing
- EEB960 Wireless Communications
- EEB976 Advanced Industrial Electronics

**Information Technology Elective Units**
- ITB007 Web Development
- ITB218 Applications Programming
ITB222 Systems Analysis and Design
ITB237 Advanced Databases
ITB254 Interaction Design
ITB257 Multimedia Systems
ITB259 Advanced Multimedia Systems
ITB260 E-Commerce Site Development
ITB322 Information Resources
ITB710 Fundamentals of Computer Science
ITB713 Advanced Java Programming
ITB716 Advanced Web Applications Development
ITB717 Enterprise Software Architecture
ITB720 Internet Protocols and Services
ITB721 Unix Network Administration
ITB722 Network Planning and Deployment
ITB723 Wireless and Mobile Networks
ITB730 Information Security Fundamentals
ITB731 Security Technologies
ITB732 Cryptology and Protocols
ITB733 Network Security
ITB740 Agent Based Software Engineering
ITB742 Computational Intelligence
ITB743 Artificial Intelligence
ITB745 Operating Systems
ITB746 Modelling and Animation Techniques
ITB747 Real Time Rendering Techniques
ITB748 Configurable Computing
ITB749 Scientific Programming

**General Elective Units**

BSB113 Economics
BSB115 Management, People and Organisations
BSB119 International and Electronic Business
LSB118 Life Science
MAB481 Visualisation and Data Analysis

Any language offered by QUT.

null

**NOTE:**

Please check unit availability as not all units are offered every year.

At the discretion of the course coordinator, students may be allowed to select an elective from any advanced topics offered by the University. Also potential honours students may, with the approval of the course coordinator, select an elective from the postgraduate degree courses offered by the School of Engineering Systems.

**Potential Careers:**

Computer Systems Engineer, Electrical and Computer Engineer, Systems Programmer.
Bachelor of Engineering (Telecommunications) (EE47)

Year offered: 2008
Admissions: No
CRICOS code: 040308D
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: $20,928; CSP $6,077
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412502; Dfee: 412506
Past rank cut-off: 80. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.
OP Guarantee: Yes
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Jasmine Banks
Campus: Gardens Point

Additional Admission Information
The EE47 Bachelor of Engineering (Telecommunications) course has been replaced by EN40 Bachelor of Engineering (Telecommunications) from 2006 onwards. There will be no intake into the EE47 course in 2008 with the exception of QTAC applicants commencing their studies with at least 240 credit points of advanced standing (academic credit); i.e. those students who will be starting in the fourth year of the program.

If offered a place you are required to attend an in-person academic credit and enrolment session as detailed in your enrolment materials.

Career Outcomes
Telecommunications engineers are involved in the design, planning, commissioning and monitoring of complex telecommunications networks and broadcasting equipment. As a result of the rapid increase in telecommunications technology, Australia currently faces a shortage of experienced telecommunications engineers. Prospective employers include all the major carrier companies such as Telstra, Optus, Vodafone, as well as mobile phone manufacturers such as Voxson, Motorola and Nokia. Other prospective employers are electronic equipment manufacturers and private and government bodies involved in Information Technology (IT), Telecommunication design and development.

Overview
Students study a combination of units from the School of Electrical and Electronic Systems Engineering, School of Computer Science and Software Engineering, School of Data Communication and the School of Mathematics. Areas covered include innovative communications technologies including the Internet, wireless mobile communication systems, optical fibre communications, satellite communication systems ADSL and other fast modem technologies, Bluetooth and HDTV.

Professional Recognition
The course is provisionally accredited by Engineers Australia (EA).

Minors
Subject to the approval of the course coordinator, students may be able to choose a minor area of study. A minor is a collection of four units from the one study area, that totals 48 credit points. This will not affect the total number of credit points required for course completion. Students may choose from the list of minors, available from the office of the Faculty of Built Environment and Engineering.

Optional Pathway
Students entering the Bachelor of Engineering (Electronics)/Bachelor of Information Technology course or the Bachelor of Engineering (Computer Systems) course may transfer to the Bachelor of Engineering (Telecommunications) at the end of the first year without loss of credit, subject to approval from the course coordinator, and meeting minimum course requirements.

Special Course Requirements
Students must complete at least 60 days of industrial experience in order graduate.

Further Information
Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

Deferment
QUT’s deferment policy does not apply to this course.

Course structure

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>EEB766   RF Communication Technologies</td>
</tr>
<tr>
<td>EEB781   Professional Studies 2</td>
</tr>
<tr>
<td>EEB889-1 Project</td>
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<tr>
<td>Year 4 - Semester 2</td>
</tr>
<tr>
<td>----------------------------------</td>
</tr>
<tr>
<td>EEB889-2 Project</td>
</tr>
<tr>
<td>EEB960   Wireless Communications</td>
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</tbody>
</table>

NOTE: For electives, please see Elective Unit List

Elective Unit List
### Electrical Engineering Elective Units

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENB350</td>
<td>Real-time Computer-based Systems</td>
</tr>
<tr>
<td>ENB352</td>
<td>Communication Environments for Embedded Systems</td>
</tr>
<tr>
<td>EEB941</td>
<td>Modern Signal Processing</td>
</tr>
<tr>
<td>EEB960</td>
<td>Wireless Communications</td>
</tr>
<tr>
<td>EEB976</td>
<td>Advanced Industrial Electronics</td>
</tr>
</tbody>
</table>

### Information Technology Elective Units

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITB007</td>
<td>Web Development</td>
</tr>
<tr>
<td>ITB218</td>
<td>Applications Programming</td>
</tr>
<tr>
<td>ITB222</td>
<td>Systems Analysis and Design</td>
</tr>
<tr>
<td>ITB237</td>
<td>Advanced Databases</td>
</tr>
<tr>
<td>ITB254</td>
<td>Interaction Design</td>
</tr>
<tr>
<td>ITB257</td>
<td>Multimedia Systems</td>
</tr>
<tr>
<td>ITB259</td>
<td>Advanced Multimedia Systems</td>
</tr>
<tr>
<td>ITB260</td>
<td>E-Commerce Site Development</td>
</tr>
<tr>
<td>ITB322</td>
<td>Information Resources</td>
</tr>
<tr>
<td>ITB710</td>
<td>Fundamentals of Computer Science</td>
</tr>
<tr>
<td>ITB713</td>
<td>Advanced Java Programming</td>
</tr>
<tr>
<td>ITB716</td>
<td>Advanced Web Applications Development</td>
</tr>
<tr>
<td>ITB717</td>
<td>Enterprise Software Architecture</td>
</tr>
<tr>
<td>ITB721</td>
<td>Unix Network Administration</td>
</tr>
<tr>
<td>ITB722</td>
<td>Network Planning and Deployment</td>
</tr>
<tr>
<td>ITB730</td>
<td>Information Security Fundamentals</td>
</tr>
<tr>
<td>ITB731</td>
<td>Security Technologies</td>
</tr>
<tr>
<td>ITB732</td>
<td>Cryptology and Protocols</td>
</tr>
<tr>
<td>ITB733</td>
<td>Network Security</td>
</tr>
<tr>
<td>ITB740</td>
<td>Agent Based Software Engineering</td>
</tr>
<tr>
<td>ITB742</td>
<td>Computational Intelligence</td>
</tr>
<tr>
<td>ITB743</td>
<td>Artificial Intelligence</td>
</tr>
<tr>
<td>ITB745</td>
<td>Operating Systems</td>
</tr>
<tr>
<td>ITB746</td>
<td>Modelling and Animation Techniques</td>
</tr>
<tr>
<td>ITB747</td>
<td>Real Time Rendering Techniques</td>
</tr>
<tr>
<td>ITB748</td>
<td>Configurable Computing</td>
</tr>
<tr>
<td>ITB749</td>
<td>Scientific Programming</td>
</tr>
</tbody>
</table>

### General Elective Units

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSB113</td>
<td>Economics</td>
</tr>
<tr>
<td>BSB115</td>
<td>Management, People and Organisations</td>
</tr>
<tr>
<td>BSB119</td>
<td>International and Electronic Business</td>
</tr>
<tr>
<td>LSB118</td>
<td>Life Science</td>
</tr>
<tr>
<td>MAB481</td>
<td>Visualisation and Data Analysis</td>
</tr>
</tbody>
</table>

**NOTE:**

Please check unit availability as not all units are offered every year.

At the discretion of the course coordinator, students may be allowed to select an elective from any advanced topics offered by the University. Also potential honours students may, with the approval of the course coordinator, select an elective from the postgraduate degree courses offered by the School of Engineering Systems.

**Potential Careers:**
Computer Systems Engineer, Data Communications Specialist, Electrical and Computer Engineer.
Bachelor of Engineering (Aerospace Avionics) (EE48)

Year offered: 2008
Admissions: No
CRICOS code: 037543G
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full Fee Tuition $20,928; CSP $6,473
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412512
Past rank cut-off: 92. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Felipe Gonzalez
Campus: Gardens Point

Additional Admission Information
The EE48 Bachelor of Engineering (Aerospace Avionics) course has been replaced by EN40 Bachelor of Engineering (Aerospace Avionics) from 2006 onwards. There will be no intake into the EE48 course in 2008 with the exception of QTAC applicants commencing their studies with at least 264 credit points of advanced standing (academic credit); i.e. those students who will be starting in the fourth year of the program.

If offered a place you are not required to lodge an academic credit form, as academic credit will be awarded by QUT before the census date of your first teaching period.

After being awarded this credit and if you wish to seek for additional academic credit, you are then required to lodge an Application for Academic Credit form for that additional credit by the due date and subject QUT rules.

OP Guarantee
The OP Guarantee does not apply to this course.

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.

Overview
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.

Professional Recognition
This degree meets the requirements for membership of Engineers Australia and the Institution of Radio and Electronics Engineers Australia. It is also professionally recognised by many international professional institutions.

Minors
Subject to the approval of the course coordinator, students in this course may gain a minor in Systems Engineering by choosing the same group project through the Aerospace Design units and the final year project providing they comply with Systems Engineering principles.

Optional Pathway
Subject to normal course entry rules students may transfer internally from the QUT Bachelor of Engineering (Electrical and Computer Engineering) course to this degree after the completion of the first year full-time if they have obtained a sufficiently high grade point average that will meet the course cut-off for that year.

Articulation to Masters
Subject to University approval, students achieving a certain minimum performance criteria at the end of year 3 of the Bachelor of Engineering course, may be eligible to study two Master of Engineering Science level units as electives.

After successfully completing the Bachelor of Engineering course, students eligible to enrol in the Master of Engineering Science courses can then have these two units credited towards the Masters Program.

Special Course Requirements
In order to graduate students in this course must complete 60 days industrial experience before graduating. An additional 10 days specialist industrial experience must be obtained in the aerospace avionics industry.

Further Information
Phone +61 7 3138 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

Deferment
QUT's deferment policy does not apply to this course.

Domestic student tuition fee (Dfee) places
Undergraduate domestic full fee places (Dfee) are not available in this course. Tuition fees are only applicable to currently enrolled students who were unable to comply
regulations regarding their original Commonwealth Supported place (i.e. failure to lodge an eCAF, has consumed of other their Student Learning Entitlement etc.) and who have been invited and accepted to continue as a fee-paying student.

Course structure

Year 4 - Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEB732</td>
<td>Space Technology</td>
</tr>
<tr>
<td>EEB781</td>
<td>Professional Studies 2</td>
</tr>
<tr>
<td>EEB782-1</td>
<td>Systems Project</td>
</tr>
<tr>
<td></td>
<td>Elective Unit 1</td>
</tr>
</tbody>
</table>

Year 4 - Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEB782-2</td>
<td>Systems Project</td>
</tr>
<tr>
<td>EEB833</td>
<td>Spacecraft Guidance and Navigation</td>
</tr>
<tr>
<td>EEB835</td>
<td>Navigation Systems for Aircraft</td>
</tr>
<tr>
<td></td>
<td>Elective Unit 2</td>
</tr>
</tbody>
</table>

Students must complete 60 days approved industrial experience in an engineering environment as approved by the course coordinator, including 10 days specialist experience in the avionics industry.

Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEB760</td>
<td>Aerospace Radio and Radar Systems</td>
</tr>
<tr>
<td>EEB766</td>
<td>RF Communication Technologies</td>
</tr>
<tr>
<td>EEB831</td>
<td>Military Combat Electronics</td>
</tr>
<tr>
<td>EEB941</td>
<td>Modern Signal Processing</td>
</tr>
<tr>
<td>EEB960</td>
<td>Wireless Communications</td>
</tr>
<tr>
<td>EEB961</td>
<td>RF and Applied Electromagnetics</td>
</tr>
<tr>
<td>EEB976</td>
<td>Advanced Industrial Electronics</td>
</tr>
<tr>
<td>PCB469</td>
<td>Astrophysics 1</td>
</tr>
</tbody>
</table>

General Elective or a language

Please check unit availability, as not all units are offered every year.

At the discretion of the course coordinator, students maybe allowed to select an elective from any advanced topics offered by the University.

Also potential honours students may, with the approval of the course coordinator, select an elective from the postgraduate degree courses offered by the School of Engineering Systems.

Potential Careers:

Aerospace Avionics Engineer.
Graduate Diploma in Computer and Communications Engineering (EE67)

Year offered: 2008
Admissions: No
CRICOS code: 015184G
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960
International Fees (per semester): No new admissions (subject to annual review)
Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
Total credit points: 96
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Jay Yang (Please refer all course enquiries to Course Leader.)
Discipline coordinator: Dr Michael Mason (Course Leader)
Campus: Gardens Point

Entry Requirements
Applicants for the Graduate Diploma must hold a bachelor degree in Electrical Engineering, Information Technology or equivalent; or have successfully completed the Graduate Certificate in Computer and Communications Engineering.

Overview
This course develops your in-depth knowledge and research skills in computer engineering, communications engineering, and several related areas. You can specialise in either computer or communications engineering or take subjects in both. Computer Engineering covers important contemporary topics such as software development, hardware development computer networking and communications, real time operating systems, and application of computers in robotics, process control, image processing and computer vision. Communications Engineering covers advanced digital communication, signal processing techniques, hardware and software components in communications systems and various applications areas.

Course Structure
Graduate Diploma students select a total of eight units from Semester 1 and Semester 2 lists.

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Note:
Graduate Diploma students complete 8 units from semester 1 and 2 lists.
At the discretion of the course coordinator, students maybe allowed to select an elective from any advanced topics offered by the University.
Most of the units as part of the program are offered once a year (either first or second semester). Students are advised to check the unit availability prior to enrolling, as units offered as electives may be cancelled due to insufficient enrolment numbers.

Potential Careers:
Computer Systems Engineer, Electrical and Computer Engineer, Software Engineer.
Master of Engineering Science (Computer and Communications Engineering) (EE74)

Year offered: 2008
Admissions: No
CRICOS code: 040343A
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960
International Fees (per semester): No new admissions (subject to annual review)
Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
Total credit points: 96
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Dr Michael Mason (Course Leader)
Campus: Gardens Point

Entry Requirements
Applicants for the Masters program must hold a bachelor degree in Electrical Engineering, Information Technology or Science with at least second class honours or equivalent; or have partially completed the Graduate Diploma in Computer and Communications Engineering with a grade point average of 5 or better over the first 4 units; or successfully completed the Graduate Diploma in Computer and Communications Engineering with a grade point average of 5 or better; or successfully completed the Graduate Certificate in Computer and Communications Engineering (EE61) with a grade point average of 5 or better.

Overview
This course develops your in-depth knowledge and research skills in computer engineering, communications engineering, and several related areas. You can specialise in either computer or communications engineering or take subjects in both. Computer Engineering covers important contemporary topics such as software development, hardware development computer networks and communications, real time operating systems, and application of computers in robotics, process control, image processing and computer vision. Communications Engineering covers advanced digital communication, signal processing techniques, hardware and software components in communications systems and various applications areas.

Masters Qualifying Program
Applicants who do not meet the entry requirements outlined above, will be required to enrol in the first semester of the Graduate Diploma in Computer and Communications Engineering (EE67). If in this first semester a sufficiently high standard is attained, then candidates will be invited to change enrolment to the Masters program. Otherwise they will continue their studies in the Graduate Diploma in Computer and Communications Engineering towards that award.

Masters Upgrade Program
Those who have completed the Graduate Diploma in Computer and Communications Engineering (EE67) may upgrade by undertaking further study in the Master of Engineering Science (Computer & Communications Engineering) and be given credit for the units which they have completed at Graduate Diploma level. The structure of the course dictates that this upgrade program be undertaken on a part-time basis.

Students undertaking the Masters Upgrade Program will enrol in the following units:
EEP301/1 Project
EEP301/2 Project.

Course Structure
Masters students select either a total of six units from Semester 1 and Semester 2 lists and complete a 24 credit point project (LEEP301, or seven units plus EEP304 Project Component.

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course Structure

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Semester 1 and/or 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEP101  Algorithms for Control and Engineering</td>
<td>EEP104  Real-Time Operating Systems</td>
<td>EEP301-1  Project</td>
</tr>
<tr>
<td>EEP102  Unix and C for Engineers</td>
<td>EEP120  Networks and Distributed Computing</td>
<td>EEP301-2  Project</td>
</tr>
<tr>
<td>EEP103  Computer Hardware and Interfacing</td>
<td>EEP123  Process Control and Robotics</td>
<td>OR</td>
</tr>
<tr>
<td>EEP124  Data Communications</td>
<td>EEP129  Image Processing and Computer Vision</td>
<td>EEP304  Project Component</td>
</tr>
<tr>
<td>EEP126  Communications Digital Signal Processing</td>
<td>EEP135  Digital Signal Processing and Applications</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective unit 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective unit 2</td>
<td></td>
</tr>
</tbody>
</table>

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Elective Units

EEB911 Electrical Energy Systems
EEB941 Modern Signal Processing
EEB960 Wireless Communications
EEB961 RF and Applied Electromagnetics
EEB976 Advanced Industrial Electronics
EEB992 VLSI Circuits and Systems
EEP127 Advanced Topic B

Note:

Most of the units as part of the program are offered once a year (either first or second semester). Students are advised to check the unit availability prior to enrolling, as units offered as electives may be cancelled due to insufficient enrolment numbers.

At the discretion of the course coordinator, students may be allowed to select an elective from any advanced topics offered by the University.

Potential Careers:

Computer Systems Engineer, Electrical and Computer Engineer.
Master of Engineering Science (Electrical Engineering Studies) (EE77)

Year offered: 2008
Admissions: No
CRICOS code: 042260K
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960
Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
Total credit points: 96
Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Dr Michael Mason (Course Leader)
Campus: Gardens Point

Entry Requirements
Applicants for the Masters program must hold a bachelor degree in Electrical Engineering, Information Technology or Science with at least second class honours or equivalent; or have partially completed the Graduate Diploma in Computer and Communications Engineering with a grade point average of 5 or better over the first 4 units; or successfully completed the Graduate Diploma in Computer and Communications Engineering with a grade point average of 5 or better; or successfully completed the Graduate Certificate in Computer and Communications Engineering (EE61) with a grade point average of 5 or better.

Overview
This course develops your in-depth knowledge and research skills in computer engineering, communications engineering, and other areas of electrical and associate engineering disciplines. You can broaden your knowledge in project management type units for mechanical and civil engineering courses or specialise in either computer or communications engineering or take subjects in both. The Computer Engineering stream covers important contemporary topics such as software development, computer networks and communications, real time operating systems, and application of computers in robotics, process control, image processing and computer vision. The Communications Engineering stream covers advanced digital communications systems, and various applications.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course structure
Full-time Course Structure

Band 1 Units
Choose 3 units from the following Band 1 units.

Most of these units are offered once a year (either in Semester 1 or Semester 2). Students are advised to check the unit availability prior to enrolling.

<table>
<thead>
<tr>
<th>Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEP201 Process Modelling</td>
</tr>
<tr>
<td>CEP291 Environmental Law and Assessment</td>
</tr>
<tr>
<td>EEP101 Algorithms for Control and Engineering</td>
</tr>
<tr>
<td>EEP102 Unix and C for Engineers</td>
</tr>
<tr>
<td>EEP103 Computer Hardware and Interfacing</td>
</tr>
<tr>
<td>MEN101 Research Methodology</td>
</tr>
<tr>
<td>MEN172 Cost Analysis and Asset Management</td>
</tr>
<tr>
<td>MEN280 Engineering Project Management</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEP141 Studies in Environmental Engineering</td>
</tr>
<tr>
<td>CEP295 Civil Engineering Management in a Project Environment</td>
</tr>
<tr>
<td>EEP129 Image Processing and Computer Vision</td>
</tr>
<tr>
<td>MEN101 Research Methodology</td>
</tr>
<tr>
<td>MEN170 Systems Modelling and Simulation</td>
</tr>
</tbody>
</table>

Band 2 Units
Choose 3 units from the range of Band 2 units. The following units are offered in EE61/66/76, and may be cancelled due to insufficient enrolment numbers. Students are advised to check the unit availability prior to enrolling.

<table>
<thead>
<tr>
<th>Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEP101 Algorithms for Control and Engineering</td>
</tr>
<tr>
<td>EEP102 Unix and C for Engineers</td>
</tr>
<tr>
<td>EEP103 Computer Hardware and Interfacing</td>
</tr>
<tr>
<td>EEP124 Data Communications</td>
</tr>
<tr>
<td>EEP126 Communications Digital Signal Processing</td>
</tr>
<tr>
<td>Elective Unit 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEP104 Real-Time Operating Systems</td>
</tr>
<tr>
<td>EEP120 Networks and Distributed Computing</td>
</tr>
<tr>
<td>EEP123 Process Control and Robotics</td>
</tr>
<tr>
<td>EEP129 Image Processing and Computer Vision</td>
</tr>
<tr>
<td>EEP135 Digital Signal Processing and Applications</td>
</tr>
<tr>
<td>Elective Unit 2</td>
</tr>
</tbody>
</table>

Band 3 Units
Students must complete their 24 cp project over one or two semesters by enrolling in the following two 12 cp project units

| EEP301-1 Project |
| EEP301-2 Project |
Elective Units

EEB911  Electrical Energy Systems
EEB941  Modern Signal Processing
EEB960  Wireless Communications
EEB961  RF and Applied Electromagnetics
EEB976  Advanced Industrial Electronics
EEB992  VLSI Circuits and Systems
EEP127  Advanced Topic B

Note:

At the discretion of the course coordinator, students may be allowed to select an elective from any advanced topics offered by the University.

The School reserves the right to offer the units according to enrolment quotas and staff availability.

Potential Careers:

Electrical and Computer Engineer, Electrical Engineer.
Overview
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.

Professional Recognition
Full professional accreditation from Engineers Australia has been given for this course.

Optional Pathway
Subject to normal course entry rules students may transfer internally from the QUT Bachelor of Engineering (Electrical) course to this degree after the completion of the first year full-time if they have obtained a sufficiently high grade point average that will meet the course cut-off for that year.

Special Course Requirements
Students must complete 60 days approved industrial experience in an engineering environment as approved by the course coordinator, including 10 days specialist experience in the avionics industry. Students will complete their industrial experience component within a unit of Work Integrated Learning.

Further Information
School of Engineering Systems - Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Domestic student tuition fee (Dfee) places
Undergraduate domestic full fee places (Dfee) are not available in this course. Tuition fees are only applicable to currently enrolled students who were unable to comply regulations regarding their original Commonwealth Supported place (i.e. failure to lodge an eCAF, has consumed of other their Student Learning Entitlement etc.) and who have been invited and accepted to continue as a fee-paying student.

Course structure

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEB100</td>
</tr>
</tbody>
</table>
### Potential Careers:
Aerospace Avionics Engineer, Electrical and Computer Engineer, Electrical Engineer.
Bachelor of Engineering (Civil and Construction) (EN40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056529D

Course duration (full-time): 4 years

Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full Fee Tuition $20,928; CSP $6,760

International Fees (per semester): 2008: $11,184 per semester (subject to annual review)

Domestic Entry: February
International Entry: February
QTAC code: 412502
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: MATHS: QUT unit Preparatory Mathematics as a visiting student or QUT Continuing Professional Education course Mathematics Bridging.
ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com

Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Jon Bunker
Campus: Gardens Point

IMPORTANT: SPECIAL NOTE
In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Recommended study
Chemistry, Maths C and Physics.

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 A 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 world wide trend towards design and construction being undertaken within one organisation, acts to advantage engineers competent in both.

Overview
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.

Professional Recognition
Full professional accreditation from Engineers Australia has been given for this course.

Special Course 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.

Minors
You will have the opportunity to undertaken two minors(a minor is four units or 48 credit points) in the same discipline. For professional recognition you will undertake an Applications Minor which consists of a Work Place Integrated Learning unit, a project unit and two specialised civil engineering units. The second minor may be taken from an approved list outside your discipline.

International Student Entry
International students who are interested in mid-year entry should consult the Faculty of Built Environment and Engineering Student Services section regarding the course structure to be undertaken.

Further Information
School of Urban Development - Phone +61 7 3864 2852, Fax +61 7 3864 1515, email: bee.enquiries@qut.com

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Course structure - standard program

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEB100</td>
</tr>
<tr>
<td>ENB101</td>
</tr>
<tr>
<td>MAB131</td>
</tr>
<tr>
<td>MAB180</td>
</tr>
<tr>
<td>UDB110</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEB200</td>
</tr>
</tbody>
</table>
do this 2nd major, will follow the first 2 years of the standard program and then continue with the following program:

<table>
<thead>
<tr>
<th>Year 3, Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENB201 Fluid Mechanics</td>
</tr>
<tr>
<td>ENB371 Geotechnical Engineering 2</td>
</tr>
<tr>
<td>ENB382 Estimating in Engineering Construction</td>
</tr>
<tr>
<td>ENB373 Design and Construction of Steel Structures</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4, Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEB701 Work Integrated Learning 1</td>
</tr>
<tr>
<td>ENB372 Design and Planning of Highways</td>
</tr>
<tr>
<td>ENB378 Water Engineering</td>
</tr>
<tr>
<td>ENB471 Design of Concrete Structures and Foundations</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4, Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEB801 Project 1</td>
</tr>
<tr>
<td>ENB476 Civil Engineering Design Project</td>
</tr>
<tr>
<td>ENB481 Civil Engineering Project Management</td>
</tr>
<tr>
<td>ENB376 Transport Engineering OR</td>
</tr>
<tr>
<td>ENB377 Water and Waste Water Treatment Engineering</td>
</tr>
</tbody>
</table>

Course structure - Structural Engineering 2nd Major

Civil Construction major students who elect to do this 2nd major, will follow the first 2 years of the standard program and then continue with the following program:

<table>
<thead>
<tr>
<th>Year 3, Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEB701 Work Integrated Learning 1</td>
</tr>
<tr>
<td>ENB371 Geotechnical Engineering 2</td>
</tr>
<tr>
<td>ENB382 Estimating in Engineering Construction</td>
</tr>
<tr>
<td>ENB373 Design and Construction of Steel Structures</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4, Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEB801 Project 1</td>
</tr>
<tr>
<td>ENB471 Design of Concrete Structures and Foundations</td>
</tr>
<tr>
<td>ENB475 Structural Engineering 3</td>
</tr>
<tr>
<td>ENB476 Second Major Selective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4, Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second Major Selective</td>
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<tr>
<td>Second Major Selective</td>
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<tr>
<td>Second Major Selective</td>
</tr>
<tr>
<td>Second Major Selective</td>
</tr>
</tbody>
</table>

Course structure - Civil Infrastructure 2nd Major

Civil Construction major students who elect to do this 2nd major, will follow the first 2 years of the standard program and then continue with the following program:

<table>
<thead>
<tr>
<th>Year 3, Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEB701 Work Integrated Learning 1</td>
</tr>
<tr>
<td>ENB371 Geotechnical Engineering 2</td>
</tr>
<tr>
<td>ENB382 Estimating in Engineering Construction</td>
</tr>
<tr>
<td>ENB373 Design and Construction of Steel Structures</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4, Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEB801 Project 1</td>
</tr>
<tr>
<td>ENB471 Design of Concrete Structures and Foundations</td>
</tr>
<tr>
<td>ENB475 Structural Engineering 3</td>
</tr>
<tr>
<td>ENB476 Second Major Selective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4, Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second Major Selective</td>
</tr>
<tr>
<td>Second Major Selective</td>
</tr>
<tr>
<td>Second Major Selective</td>
</tr>
<tr>
<td>Second Major Selective</td>
</tr>
</tbody>
</table>

Second Major Selectives

Semester 1:

| DAB110 Introductory Architectural Design 1 |
Semester 2:
ENB485 Advanced Geotechnical Engineering Practice
BEB802 Project 2
DAB210 Introductory Architectural Design 2
ENB473 Design and Construction of Multi-Storey Buildings
ENB474 Finite Element Methods
ENB476 Civil Engineering Design Project
ENB481 Civil Engineering Project Management

Potential Careers:
Civil Engineer, Construction Manager, Project Manager.
Bachelor of Engineering (Civil and Environmental) (EN40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056529D
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: $11,184 per semester (subject to annual review)
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412502
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: MATHS: QUT unit Preparatory Mathematics as a visiting student or QUT Continuing Professional Education course Mathematics Bridging. ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Jon Bunker
Campus: Gardens Point

IMPORTANT: SPECIAL NOTE
In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Additional Admission Information
Applicants who are offered a place and eligible to receive 168 credit points (or more) of advanced standing will be admitted to the CE46 Bachelor of Engineering (Civil and Environmental).

Recommended Study
Chemistry, Maths C and Physics.

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 waste water treatment plants and refineries. As legislation becomes more stringent and the community’s expectations increase, there will be need for institutions to employ more environmental engineers.

Overview
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.

Minors
You will have the opportunity to undertake two minors; a minor is four units (48 credit points) in the same discipline. For professional recognition you will undertake an Applications minor which consists of a Work Place Integrated Learning unit, a project unit and two specialised civil engineering units. The second minor may be taken from an approved list outside your discipline.

Professional Recognition
Full professional accreditation from Engineers Australia has been given for this course.

Special Course 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.

Further Information
School of Urban Development - Phone +61 7 3864 2852, Fax +61 7 3864 1515, email: bee.enquiries@qut.com

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Course structure

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEB100 Introducing Professional Learning</td>
</tr>
<tr>
<td>ENB101 Engineering Mechanics 1</td>
</tr>
<tr>
<td>ENB104 Engineering Materials</td>
</tr>
<tr>
<td>MAB131 Engineering Mathematics 1A</td>
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<tr>
<td>OR</td>
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<tr>
<td>MAB180 Engineering Mathematics 1B</td>
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<table>
<thead>
<tr>
<th>Year 1 - Semester 2</th>
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</thead>
<tbody>
<tr>
<td>BEB200 Introducing Sustainability</td>
</tr>
<tr>
<td>ENB102 Engineering Mechanics 2</td>
</tr>
<tr>
<td>ENB103 Electrical Engineering</td>
</tr>
<tr>
<td>MAB132 Engineering Mathematics 2A</td>
</tr>
</tbody>
</table>
### Potential Careers:
Civil Engineer, Environmental Engineer.

### Year 2 - Semester 1
- **ENB271** Design of Structural Timber and Earthworks
- **ENB272** Geotechnical Engineering 1
- **ENB273** Civil Materials
- **MAB233** Engineering Mathematics 3

### Year 2 - Semester 2
- **ENB201** Fluid Mechanics
- **ENB274** Design of Environmentally Sustainable Systems
- **ENB275** Project Engineering 1
- **ENB276** Structural Engineering 1

### Year 3 - Semester 1
- **ENB372** Design and Planning of Highways
- **ENB378** Water Engineering
- **ENB380** Environmental Law and Assessment
  - Second Major/Minor Unit

### Year 3 - Semester 2
- **ENB371** Geotechnical Engineering 2
- **ENB376** Transport Engineering
- **ENB383** Environmental Resource Management
- **UDB164** Population and Urban Studies

### Year 4 - Semester 1
- **BEB701** Work Integrated Learning 1
- **BEB801** Project 1
  - Applications Minor Selective
  - Second Major/Minor Unit

### Year 4 - Semester 2
- **ENB377** Water and Waste Water Treatment Engineering
  - Applications Minor Selective
  - Second Major/Minor Unit
  - Second Major/Minor Unit

### Applications Minor Selectives
- **Semester 1:**
  - **ENB379** Transport Engineering and Planning Applications
  - **ENB478** Advanced Water Engineering
  - **ENB485** Advanced Geotechnical Engineering Practice
- **Semester 2:**
  - **BEB802** Project 2
  - **ENB474** Finite Element Methods
  - **ENB476** Civil Engineering Design Project
Bachelor of Engineering (Civil) (EN40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056529D
Course duration (full-time): 4 years

Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)

Domestic fees (indicative): 2008: Full fee tuition $20,928; CSP $6,760

International Fees (per semester): 2008: $11,184 per semester (subject to annual review)

Domestic Entry: February and July
International Entry: February; July
QTAC code: 412502
Past rank cut-off: 76
Past OP cut-off: 12

OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: MATHS: QUT unit Preparatory Mathematics as a visiting student or QUT Continuing Professional Education course Mathematics Bridging.
ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Jon Bunker
Campus: Gardens Point

IMPORTANT: SPECIAL NOTE

In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Additional Admission Information

Applicants who are offered a place and eligible to receive 168 credit points (or more) of advanced standing will be admitted to the CE44 Bachelor of Engineering (Civil).

Recommended Study
Chemistry, Maths C and Physics.

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.

Overview
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 major; Sustainable development, waste management, toxic site rehabilitation, water & wastewater.

Professional Recognition
Full professional accreditation from Engineers Australia has been given for this course.

Minors
You will have the opportunity to undertake two minors; a minor is four units (48 credit points) in the same discipline. For professional recognition you will undertake an Applications minor which consists of a Work Place Integrated Learning unit, a project unit and two specialised civil engineering units. The second minor may be taken from an approved list outside your discipline.

Mid-year Entry
This course is also offered as an accelerated program for mid-year entry students, in which the course can be completed in three and a half years full-time through attendance at the Summer Program.

Applicants who are offered place and eligible to receive 72 credit points (or more) of advanced standing will be admitted to the CE45 Bachelor of Engineering (Civil).

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

Further Information
School of Urban Development - Phone +61 7 3864 2852, Fax +61 7 3864 1515, email: bee.enquiries@qut.com

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Course structure - standard program

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
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<tbody>
<tr>
<td>BEB100</td>
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<td>MAB131</td>
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<td>Course</td>
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<tr>
<td>Year 1 - Semester 2</td>
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<tr>
<td>BEB200</td>
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<td>Year 2 - Semester 1</td>
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<td>Year 3 - Semester 1</td>
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<td>Year 3 - Semester 2</td>
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<td>Year 4 - Semester 1</td>
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<td>ENB472</td>
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<tr>
<td>Course structure - mid year entry</td>
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<tr>
<td>Year 1 - Semester 2</td>
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<tr>
<td>BEB200</td>
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<tr>
<td>ENB101</td>
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<tr>
<td>Year 1 - Summer</td>
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<tr>
<td>ENB102</td>
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<tr>
<td>MAB182</td>
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<td>Year 2 - Semester 1</td>
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<td>BEB100</td>
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<td>Year 2 - Semester 2</td>
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<tr>
<td>Course structure - Structural Engineering 2nd major</td>
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<td>Year 3, Semester 1</td>
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<tr>
<td>BEB701</td>
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<tr>
<td>ENB372</td>
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<td>ENB375</td>
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Year 3, Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ENB371</td>
<td>Geotechnical Engineering 2</td>
</tr>
<tr>
<td>ENB373</td>
<td>Design and Construction of Steel Structures</td>
</tr>
<tr>
<td>ENB376</td>
<td>Transport Engineering</td>
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<tr>
<td>ENB377</td>
<td>Water and Waste Water Treatment Engineering</td>
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Year 4, Semester 1

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<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>BEB701</td>
<td>Work Integrated Learning 1</td>
</tr>
<tr>
<td>BEB801</td>
<td>Project 1</td>
</tr>
<tr>
<td>ENB379</td>
<td>Transport Engineering and Planning Applications</td>
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<tr>
<td>ENB471</td>
<td>Design of Concrete Structures and Foundations</td>
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Year 4, Semester 2

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<tbody>
<tr>
<td>ENB472</td>
<td>Project Engineering 2</td>
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<tr>
<td>ENB475</td>
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Second Major Selective

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<tr>
<td>DAB110</td>
<td>Introductory Architectural Design 1</td>
</tr>
<tr>
<td>ENB485</td>
<td>Advanced Geotechnical Engineering Practice</td>
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<tr>
<td>BEB802</td>
<td>Project 2</td>
</tr>
<tr>
<td>DAB210</td>
<td>Introductory Architectural Design 2</td>
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<tr>
<td>ENB473</td>
<td>Design and Construction of Multi-Storey Buildings</td>
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<tr>
<td>ENB474</td>
<td>Finite Element Methods</td>
</tr>
<tr>
<td>ENB476</td>
<td>Civil Engineering Design Project</td>
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<tr>
<td>ENB481</td>
<td>Civil Engineering Project Management</td>
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</table>

Year 3, Semester 1

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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ENB372</td>
<td>Design and Planning of Highways</td>
</tr>
<tr>
<td>ENB375</td>
<td>Structural Engineering 2</td>
</tr>
<tr>
<td>ENB378</td>
<td>Water Engineering</td>
</tr>
<tr>
<td>UDB266</td>
<td>Planning Processes and Consultations</td>
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</table>

Year 3, Semester 2

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>ENB371</td>
<td>Geotechnical Engineering 2</td>
</tr>
<tr>
<td>ENB376</td>
<td>Transport Engineering</td>
</tr>
<tr>
<td>ENB377</td>
<td>Water and Waste Water Treatment Engineering</td>
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</tbody>
</table>

Year 4, Semester 1

<table>
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<td>Work Integrated Learning 1</td>
</tr>
<tr>
<td>BEB801</td>
<td>Project 1</td>
</tr>
<tr>
<td>ENB379</td>
<td>Transport Engineering and Planning Applications</td>
</tr>
<tr>
<td>ENB471</td>
<td>Design of Concrete Structures and Foundations</td>
</tr>
</tbody>
</table>

Year 4, Semester 2

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<th>Course Code</th>
<th>Course Name</th>
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<tr>
<td>ENB472</td>
<td>Project Engineering 2</td>
</tr>
<tr>
<td>UDB267</td>
<td>Development Assessment and Infrastructure</td>
</tr>
<tr>
<td>UDB370</td>
<td>Environmental Planning and Management Second Major Selective</td>
</tr>
</tbody>
</table>

Potential Careers:

Civil Engineer, Environmental Engineer.
Bachelor of Engineering (Computer Systems) (EN40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056529D
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full Fee Tuition $20,928; CSP $6,760
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412502
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: MATHS: QUT unit Preparatory Mathematics as a visiting student or QUT Continuing Professional Education course Mathematics Bridging. ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R.Mahalinga-Iyer
Discipline coordinator: Dr Jasmine Banks
Campus: Gardens Point

IMPORTANT: SPECIAL NOTE
In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Additional Admission Information
Applicants who are offered place and eligible to receive 168 credit points (or more) of advanced standing will be admitted to the EE46 Bachelor of Engineering (Computer Systems).

Recommended Study
Chemistry, Maths C and Physics.

Career Outcomes
Graduates will be employed as design engineers, software engineers, hardware engineers, computer system engineers, information systems engineers, research and development engineers and project managers.

Overview
Students will study units from both electrical engineering and computing from a computer-based systems perspective. The course aims to produce students who are employable as design engineers, software and hardware engineers, computer systems engineers, and information systems engineers.

Professional Recognition
Full professional accreditation from Engineers Australia has been given for this course.

Optional Pathways
Students entering the Bachelor of Engineering (Electronics)/Bachelor of Information Technology course or the Bachelor of Engineering (Telecommunications) course can change to the Bachelor of Engineering (Computer Systems) at the end of the first year without loss of credit, subject to approval from the course coordinator and meeting minimum course requirements.

Special Course Requirements
Students must complete at least 60 days industrial experience in order to graduate.

Further Information
School of Engineering Systems - Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Course structure

**Year 1 - Semester 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Unit Name</th>
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<tbody>
<tr>
<td>BEB100</td>
<td>Introducing Professional Learning</td>
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<tr>
<td>ITB001</td>
<td>Problem Solving and Programming</td>
</tr>
<tr>
<td>MAB131</td>
<td>Engineering Mathematics 1A OR</td>
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<tr>
<td>MAB180</td>
<td>Engineering Mathematics 1B</td>
</tr>
<tr>
<td>PCB136</td>
<td>Engineering Physics 1C</td>
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</table>

**Year 1 - Semester 2**

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<tr>
<th>Code</th>
<th>Unit Name</th>
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<tr>
<td>BEB200</td>
<td>Introducing Sustainability</td>
</tr>
<tr>
<td>ENB103</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>ITB003</td>
<td>Object Oriented Programming</td>
</tr>
<tr>
<td>MAB132</td>
<td>Engineering Mathematics 2A OR</td>
</tr>
<tr>
<td>MAB182</td>
<td>Engineering Mathematics 2B</td>
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</table>

**Year 2 - Semester 1**

<table>
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<tr>
<th>Code</th>
<th>Unit Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENB240</td>
<td>Introduction To Electronics</td>
</tr>
<tr>
<td>ENB242</td>
<td>Introduction To Telecommunications</td>
</tr>
<tr>
<td>ITB711</td>
<td>Programming Abstraction</td>
</tr>
<tr>
<td>MAB233</td>
<td>Engineering Mathematics 3</td>
</tr>
</tbody>
</table>
Year 2 - Semester 2
ENB243  Linear Circuits and Systems
ENB244  Microprocessors and Digital Systems
ENB245  Introduction To Design and Professional Practice
ITB006  Networks

Year 3 - Semester 1
ENB301  Instrumentation and Control
ENB342  Signals, Systems and Transforms
ENB350  Real-time Computer-based Systems
IT Elective

Year 3 - Semester 2
ENB345  Advanced Design and Professional Practice
ENB346  Digital Communications
ENB352  Communication Environments For Embedded Systems
ITB744  Computer Architecture

Year 4 - Semester 1
BEB701  Work Integrated Learning 1
BEB801  Project 1
ENB441  Applied Image Processing
IT Elective
OR
ITB747  Real Time Rendering Techniques

Year 4 - Semester 2
BEB802  Project 2
ENB448  Signal Processing and Filtering
ENB458  Modern Control Systems
ITB743  Artificial Intelligence

Potential Careers:
Computer Systems Engineer, Electrical and Computer Engineer, Systems Programmer.
Bachelor of Engineering (Infomechatronics) (EN40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056529D
Course duration (full-time): 4 years

Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: $20,928; CSP $6,760

International Fees (per semester): 2008: $11,184 per semester (subject to annual review)

Domestic Entry: February
International Entry: February
QTAC code: 412502
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: MATHS: QUT unit Preparatory Mathematics as a visiting student or QUT Continuing Professional Education course Mathematics Bridging. ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com

Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Gary Chadwick
Campus: Gardens Point

IMPORTANT: SPECIAL NOTE
In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Additional Admission Information
Applicants who are a offered place and eligible to receive 168 credit points (or more) of advanced standing will be admitted to the ME40 Bachelor of Engineering (Infomechatronics).

Recommended Study
Chemistry, Maths C and Physics.

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.

Overview
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 emphasis 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.

Professional Recognition
Full professional accreditation from Engineers Australia has been given for this course.

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

Minors
For professional recognition you will undertake an Applications minor which consists of a Work Place Integrated Learning unit, a project unit and two specialised engineering units.

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Further Information
School of Engineering Systems - Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

Course structure

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
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</thead>
<tbody>
<tr>
<td>BEB100</td>
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<tr>
<td>ITB849</td>
</tr>
<tr>
<td>MAB131</td>
</tr>
<tr>
<td>MAB180</td>
</tr>
<tr>
<td>PCB136</td>
</tr>
</tbody>
</table>
### Year 1 - Semester 2
- ENB101  Engineering Mechanics 1
- ENB103  Electrical Engineering
- ENB104  Engineering Materials
- MAB132  Engineering Mathematics 2A
- OR
- MAB182  Engineering Mathematics 2B

### Year 2 - Semester 1
- ENB211  Dynamics
- ENB231  Materials and Manufacturing 1
- ENB240  Introduction To Electronics
- ITB749  Scientific Programming

### Year 2 - Semester 2
- BEB200  Introducing Sustainability
- ENB102  Engineering Mechanics 2
- ENB215  Fundamentals of Mechanical Design
- ENB222  Thermodynamics 1

### Year 3 - Semester 1
- ENB331  Materials and Manufacturing 2
- ENB333  Operations Management
- ENB340  Power Systems and Machines
- MAB233  Engineering Mathematics 3

### Year 3 - Semester 2
- ENB201  Fluid Mechanics
- ENB243  Linear Circuits and Systems
- ENB244  Microprocessors and Digital Systems
- ENB334  Design For Manufacturing

### Year 4 - Semester 1
- ENB301  Instrumentation and Control
- ENB436  Mechatronics System Design
- ITB847  Computational Intelligence for Control and Embedded Systems
- Applications Minor Selective

### Year 4 - Semester 2
- BEB701  Work Integrated Learning 1
- BEB801  Project 1
- BEB802  Project 2
- ITB706  Systems Programming

### Applications Minor Selectives
To be advised by the Subject Area Coordinator.

### Potential Careers:
Manufacturer, Mechanical Engineer.
Bachelor of Engineering (Mechanical) (EN40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056529D
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full Fee Tuition $20,928; CSP $6,760
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)
Domestic Entry: February and July
International Entry: February; July
QTAC code: 412502
Past cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: MATHS: QUT unit Preparatory Mathematics as a visiting student or QUT Continuing Professional Education course Mathematics Bridging. ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Gary Chadwick
Campus: Gardens Point

IMPORTANT: SPECIAL NOTE
In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Additional Admission Information
Applicants who are offered place and eligible to receive 168 credit points (or more) of advanced standing will be admitted to the ME41 Bachelor of Engineering (Mechanical).

Recommended Study
Chemistry, Maths C and Physics.

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 maybe 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, 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.

Overview
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.

Professional Recognition
Full professional accreditation from Engineers Australia has been given for this course.

Minors
You will have the opportunity to undertake two minors; a minor is four units (48 credit points). For professional recognition you will undertake an Applications minor which consists of a Work Place Integrated Learning unit, a project unit and 2 specialised engineering units. The second minor may be taken from an approved list outside your discipline.

Special Course 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.

Mid-year Entry
This course is also offered as an accelerated program for mid-year entry students, in which the course can be completed in three and a half years full-time through attendance at the Summer Program.

Applicants who are offered place and eligible to receive 72 credit points (or more) of advanced standing will be admitted to the ME42 Bachelor of Engineering (Mechanical).

Further Information
School of Engineering Systems - Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

Deferred
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Course structure - standard program

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
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</thead>
<tbody>
<tr>
<td>BEB100</td>
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<tr>
<td>ENB101</td>
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<td>MAB131</td>
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<tr>
<td>Course</td>
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</table>

Please note:

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Year 1 - Semester 2</th>
<th>Year 2 - Semester 1</th>
<th>Year 2 - Semester 2</th>
<th>Year 3 - Semester 1</th>
<th>Year 3 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ENB102 Engineering Mechanics 1</td>
<td>ENB105 Electrical and Computer Engineering</td>
<td>BEB200 Introducing Sustainability</td>
<td>ENB301 Instrumentation and Control</td>
<td>ENB312 Dynamics of Machinery</td>
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<tr>
<td></td>
<td>ENB103 Electrical Engineering</td>
<td>ENB104 Engineering Materials</td>
<td>ENB201 Fluid Mechanics</td>
<td>ENB311 Stress Analysis</td>
<td>ENB312 Dynamics of Machinery</td>
</tr>
<tr>
<td></td>
<td>MAB182 Engineering Mathematics 2B</td>
<td></td>
<td>ENB215 Fundamentals of Mechanical Design</td>
<td>ENB331 Materials and Manufacturing 2</td>
<td>ENB321 Fluids Dynamics</td>
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<td></td>
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<td></td>
<td>ENB222 Thermodynamics 1</td>
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</tr>
</tbody>
</table>

Program is the same as February entry hereafter.

**Course structure - Engineering Management 2nd Major**

Mechanical major students who elect to do this 2nd major, will follow the first 2 years of the standard program and then continue with the following program:

Engineering Management major students are expected to do an industry-based project such as CEED combining Project 1, Project 2, and Work Integrated Learning 1 units. These units are to be done concurrently.

<table>
<thead>
<tr>
<th>Course</th>
<th>Year 3, Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ENB312 Dynamics of Machinery</td>
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<tr>
<td></td>
<td>ENB331 Materials and Manufacturing 2</td>
</tr>
<tr>
<td></td>
<td>ENB321 Fluids Dynamics</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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</tr>
<tr>
<td>ENB336</td>
<td>Industrial Engineering</td>
</tr>
<tr>
<td>ENB333</td>
<td>Operations Management</td>
</tr>
<tr>
<td>ENB421</td>
<td>Thermodynamics 2</td>
</tr>
<tr>
<td>ENB432</td>
<td>Engineering Asset Management and Maintenance</td>
</tr>
</tbody>
</table>

**Year 4, Semester 2**
- BEB701 Work Integrated Learning 1
- BEB801 Project 1
- BEB802 Project 2
  - Second Major Selective

**Second Major Selectives**
- Semester 1:
  - BSB126 Marketing
  - ENB435 Computer Integrated Manufacturing
- Semester 2:
  - BSB115 Management, People and Organisations
  - ENB422 Energy Management
  - MGB218 Managing Business Growth
  - Students may choose any other unit related to management approved by the Subject Area Coordinator.

**Course structure - Automotive Engineering 2nd Major**

Mechanical major students who elect to do this 2nd major, will follow the first 2 years of the standard program and then continue with the following program:

**Year 3, Semester 2**
- ENB312 Dynamics of Machinery
- ENB317 Design and Maintenance of Machinery
- ENB321 Fluids Dynamics
- ENB334 Design For Manufacturing

**Year 4, Semester 1**
- ENB315 Motor Racing Vehicle Design
- ENB333 Operations Management
- ENB421 Thermodynamics 2
- ENB432 Engineering Asset Management and Maintenance

**Year 4, Semester 2**
- BEB701 Work Integrated Learning 1
- BEB801 Project 1
- BEB802 Project 2
- DNB202 Product Usability

**Potential Careers:**
- Mechanical Engineer.
Bachelor of Engineering (Medical) (EN40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056388A
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $20,928; CSP $6,760
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412502
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: MATHS: QUT unit Preparatory Mathematics as a visiting student or QUT Continuing Professional Education course Mathematics Bridging. ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Gary Chadwick
Campus: Gardens Point

IMPORTANT: SPECIAL NOTE
In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Additional Admission Information
Applicants who are offered a place and eligible to receive 168 credit points (or more) of advanced standing will be admitted to the ME48 Bachelor of Engineering (Medical).

Recommended Study
Chemistry, Maths C and Physics.

Career Outcomes
Graduates from this degree may expect to find employment in hospitals as advisors 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.

Overview
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 allied 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.

Professional Recognition
Full professional accreditation from Engineers Australia has been given for this course.

Special Course 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.

Minors
For professional recognition you will undertake an applications minor which consists of a workplace integrated learning unit, a project unit and two specialised engineering units.

Further Information
School of Engineering Systems - Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Course structure

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
<th>ENB101</th>
<th>Engineering Mechanics 1</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>LSB131</td>
<td>Anatomy</td>
</tr>
<tr>
<td></td>
<td>MAB131</td>
<td>Engineering Mathematics 1A</td>
</tr>
<tr>
<td>OR</td>
<td>MAB180</td>
<td>Engineering Mathematics 1B</td>
</tr>
<tr>
<td></td>
<td>PCB136</td>
<td>Engineering Physics 1C</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1 - Semester 2</th>
<th>ENB102</th>
<th>Engineering Mechanics 2</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>ENB103</td>
<td>Electrical Engineering</td>
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<tr>
<td>Year 2 - Semester 1</td>
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</tr>
<tr>
<td>BEB100</td>
<td>Introducing Professional Learning</td>
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<tr>
<td>ENB211</td>
<td>Dynamics</td>
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<tr>
<td>ENB231</td>
<td>Materials and Manufacturing 1</td>
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</tr>
<tr>
<td>LSB451</td>
<td>Human Physiology</td>
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</tr>
</tbody>
</table>

| Year 2 - Semester 2 |
|---------------------|---|
| BEB200 | Introducing Sustainability |
| ENB201 | Fluid Mechanics |
| ENB215 | Fundamentals of Mechanical Design |
| ENB222 | Thermodynamics 1 |

| Year 3 - Semester 1 |
|---------------------|---|
| ENB105 | Electrical and Computer Engineering |
| ENB311 | Stress Analysis |
| ENB319 | Biomechanical Engineering Design |
| MAB233 | Engineering Mathematics 3 |

| Year 3 - Semester 2 |
|---------------------|---|
| ENB318 | Biomechanical Engineering Systems |
| ENB322 | Biofluids |
| ENB338 | Biomaterials |
| ENB437 | Health Legislation in the Medical Environment |

| Year 4 - Semester 1 |
|---------------------|---|
| BEB801 | Project 1 |
| ENB301 | Instrumentation and Control |
| ENB432 | Engineering Asset Management and Maintenance |

| Year 4 - Semester 2 |
|---------------------|---|
| BEB701 | Work Integrated Learning 1 |
| BEB802 | Project 2 |
| ENB335 | Modelling and Simulation For Medical Engineers |
| PCB605 | Biomedical Instrumentation |

**Applications Minor Selectives**

To be advised by the Subject Area Coordinator.

**Potential Careers:**

Biomechanical Engineer, Biomedical Engineer, Mechanical Engineer.
Bachelor of Engineering (Telecommunications) (EN40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056529D
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full Fee Tuition $20,928; CSP $6,760
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412502
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: MATHS: QUT unit Preparatory Mathematics as a visiting student or QUT Continuing Professional Education course Mathematics Bridging. ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Jasmine Banks
Campus: Gardens Point

Overview
You will study a combination of units from Electrical Engineering, Computer Science, Software Engineering, Data Communications and Mathematics. Areas covered include innovative communications technologies including the Internet, wireless mobile communication systems, optical fibre communications, satellite communication systems ADSL and other fast modem technologies, Bluetooth and HDTV.

Professional Recognition
Full professional accreditation from Engineers Australia has been given for this course.

Optional Pathways
If you enter the Bachelor of Engineering (Electrical)/Bachelor of Information Technology course or the Bachelor of Engineering (Computer Systems) course, subject to the approval of the course coordinator, and if you meet the minimum course requirements you can apply to change to the Bachelor of Engineering (Telecommunications) at the end of the first year without loss of credit.

Special Course Requirements
To graduate you must complete at least 60 days of approved industrial experience in an engineering environment.

Further Information
School of Engineering Systems - Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

Deferment
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Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Career Outcomes
Telecommunications engineers are involved in the design, planning, commissioning and monitoring of complex telecommunications networks and broadcasting equipment. As a result of the rapid increase in telecommunications technology, Australia currently faces a shortage of experienced telecommunications engineers. Prospective employers include all the major carrier companies such as Telstra, Optus, Vodafone, as well as mobile phone manufacturers such as Voxson, Motorola and Nokia. Other prospective employers are electronic equipment manufacturers and private and government bodies involved in Information Technology (IT), Telecommunication design and development.

Recommended Study
Chemistry, Maths C and Physics.

Course structure

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
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<tbody>
<tr>
<td>BEB100</td>
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<tr>
<td>ITB001</td>
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<td>MAB131</td>
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<td>MAB180</td>
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<td>PCB136</td>
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<table>
<thead>
<tr>
<th>Year 1 - Semester 2</th>
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<tbody>
<tr>
<td>BEB200</td>
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</table>
### Year 2 - Semester 1

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<th>Course Title</th>
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<tbody>
<tr>
<td>ENB240</td>
<td>Introduction To Electronics</td>
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<tr>
<td>ENB242</td>
<td>Introduction To Telecommunications</td>
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<td>ITB006</td>
<td>Networks</td>
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<tr>
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<tr>
<td>MAB233</td>
<td>Engineering Mathematics 3</td>
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### Year 2 - Semester 2

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<th>Course Title</th>
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<tr>
<td>ENB243</td>
<td>Linear Circuits and Systems</td>
</tr>
<tr>
<td>ENB244</td>
<td>Microprocessors and Digital Systems</td>
</tr>
<tr>
<td>ENB245</td>
<td>Introduction To Design and Professional Practice</td>
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<tr>
<td>ITB711</td>
<td>Programming Abstraction</td>
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### Year 3 - Semester 1

<table>
<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>ENB301</td>
<td>Instrumentation and Control</td>
</tr>
<tr>
<td>ENB342</td>
<td>Signals, Systems and Transforms</td>
</tr>
<tr>
<td>ENB343</td>
<td>Fields, Transmission and Propagation</td>
</tr>
<tr>
<td>ITB720</td>
<td>Internet Protocols and Services</td>
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### Year 3 - Semester 2

<table>
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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>BEB701</td>
<td>Work Integrated Learning 1</td>
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<tr>
<td>ENB345</td>
<td>Advanced Design and Professional Practice</td>
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<tr>
<td>ENB346</td>
<td>Digital Communications</td>
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### Year 4 - Semester 1

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<th>Course Title</th>
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<tr>
<td>ENB440</td>
<td>RF and Applied Electromagnetics</td>
</tr>
<tr>
<td>ITB723</td>
<td>Wireless and Mobile Networks</td>
</tr>
<tr>
<td>ITB732</td>
<td>Cryptology and Protocols</td>
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### Year 4 - Semester 2

<table>
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<tr>
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<th>Course Title</th>
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<tr>
<td>BEB802</td>
<td>Project 2</td>
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<tr>
<td>ENB445</td>
<td>RF Communication Technologies</td>
</tr>
<tr>
<td>ENB446</td>
<td>Wireless Communications</td>
</tr>
<tr>
<td>ENB448</td>
<td>Signal Processing and Filtering</td>
</tr>
</tbody>
</table>

### Potential Careers:

Electrical and Computer Engineer, Electrical Engineer.
Bachelor of Engineering - Dean's Scholars Program (EN40)

Year offered: 2008
Admissions: Yes
CRICOS code: As per course of study
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full Fee Tuition $20,928; CSP $6,760
International Fees (per semester): 2008: $11,184 per semester as per course of study (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412052
Past rank cut-off: 99 plus successful questionnaire. Please refer to Additional Entry Requirements.
Past OP cut-off: 1 plus successful questionnaire. Please refer to Additional Entry Requirements.
Assumed knowledge: English (4, VHA) and Maths B (4, VHA)
Total credit points: 384
Course coordinator: Dr R.Mahalinga-Iyer
Campus: Gardens Point

Entry requirements
Applicants must be outstanding current, or returning from a gap year, Year 12 students who.

Additional Entry Requirements
Engineering Dean's Scholars applicants are required to complete a questionnaire which will be available at questionnaire available via the Engineering Dean's Scholars website.

Shortlisted applicants may be required to attend an interview and will be notified of date and venue after the questionnaire closes.

The due date to submit the questionnaire for the late January round is 18 January 2008. Late submissions will be accepted up until 18 January 2008. Submissions after 18 January will not be accepted.

Fixed Closing Date
Applications for this program will close on 30 November.

Recommended Study
Chemistry, Maths C and Physics.

Domestic Student Fees
Students who enrol will receive a full scholarship that includes payment of all undergraduate Higher Education Contribution Scheme (HECS) monies for the bachelor program. Students who attain a grade point average of 5.5 or above in their QUT studies and wish to continue to the Masters of Engineering accelerated program will receive further scholarship benefits, being the full payment of the course fees for the masters program.

Industry Sponsors
ESSO and Mobil
Visy Paper
EGR Group
Brisbane City Council
Bovis Lend Lease
CIEAM
Thiess

Course Structure
The Dean's Scholars Program offers students the opportunity to complete one of the Bachelor of Engineering programs and a Master of Engineering whilst providing a number of opportunities, which include:

- Introduction to the Engineering environment and high-level engineering management through company site visits;
- Boardroom visits to sponsoring companies to introduce you to prospective employers and engineering managers;
- Leadership Dinner sponsored by one of the companies associated with the program;
- Participation in a number of events relating to industry and association;
- Involvement in programs within the community;
- Access to senior academics who will assist you throughout your course.

Students can choose to complete one out of ten Bachelor of Engineering programs. This does not include the Bachelor of Engineering (Software Engineering).

Special Course Requirements
Students enrolled in the Dean's Scholars program must maintain a GPA of 5.5 throughout their course. For a copy of the program rules and regulations please contact the Faculty Office or www.bee.qut.edu.au/study/scholarships/commencing/deans.jsp

Students must complete at least 60 days of industrial experience in order to graduate.

International Student Fees
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.

Further Information
The Faculty of Built Environment and Engineering Phone + 61 7 3864 4039, Fax + 61 7 3864 5280, email: bee.enquiries@qut.com
Deferral
QUT’s deferral policy does not apply to this course.

Domestic student tuition fee (Dfee) places
Undergraduate domestic full fee places (Dfee) are not available in this course. Tuition fees are only applicable to currently enrolled students who were unable to comply with regulations regarding their original Commonwealth Supported place (i.e. failure to lodge an eCAF, has consumed of other their Student Learning Entitlement etc.) and who have been invited and accepted to continue as a fee-paying student.

Aerospace Avionics - Dean’s Scholars Course structure
Programme for students who commence 2008 onwards.
See EN40 Bachelor of Engineering (Aerospace Avionics) course structure.
If as a Dean’s Scholar, you wish to accelerate your program, please consult with the Course Coordinator.

Civil - Dean’s Scholars Course Structure
Programme for students who commence 2006 onwards.
See EN40 Bachelor of Engineering (Civil) course structure.
If as a Dean’s Scholar, you wish to accelerate your program, please consult with the Course Coordinator.

Programme for continuing students who commenced prior to 2006.
Due to the major restructure of our Postgraduate Studies commencing in 2008, continuing DeanOs Scholars who commenced prior to 2006 are advised to consult the Course Coordinator regarding their remaining program.

Civil and Environmental Management - Dean’s Scholars Course Structure
Programme for students who commence 2006 onwards.
See EN40 Bachelor of Engineering (Civil & Environmental Management) course structure.
If as a Dean’s Scholar, you wish to accelerate your program, please consult with the Course Coordinator.

Programme for continuing students who commenced prior to 2006.
Due to the major restructure of our Postgraduate Studies commencing in 2008, continuing DeanOs Scholars who commenced prior to 2006 are advised to consult the Course Coordinator regarding their remaining program.

Computer Systems - Dean’s Scholars Course Structure
Programme for students who commence 2006 onwards.
See EN40 Bachelor of Engineering (Computer Systems) course structure.
If as a Dean’s Scholar, you wish to accelerate your program, please consult with the Course Coordinator.

Programme for continuing students who commenced prior to 2006.
Due to the major restructure of our Postgraduate Studies commencing in 2008, continuing DeanOs Scholars who commenced prior to 2006 are advised to consult the Course Coordinator regarding their remaining program.

Electrical and Computer Engineering - Dean’s Scholars Course Structure
Programme for students who commence 2006 onwards.
See EN40 Bachelor of Engineering (Electrical) course structure.
If as a Dean’s Scholar, you wish to accelerate your program, please consult with the Course Coordinator.

Programme for continuing students who commenced prior to 2006.
Due to the major restructure of our Postgraduate Studies commencing in 2008, continuing DeanOs Scholars who commenced prior to 2006 are advised to consult the Course Coordinator regarding their remaining program.

Infomechatronics - Dean’s Scholars Course Structure
Programme for students who commence 2006 onwards.
See EN40 Bachelor of Engineering (Infomechatronics) course structure.
If as a Dean’s Scholar, you wish to accelerate your program, please consult with the Course Coordinator.

Programme for continuing students who commenced prior to 2006.
Due to the major restructure of our Postgraduate Studies commencing in 2008, continuing DeanOs Scholars who commenced prior to 2006 are advised to consult the Course Coordinator regarding their remaining program.

Mechanical - Dean’s Scholars Course Structure
Programme for students who commence 2006 onwards.
See EN40 Bachelor of Engineering (Mechanical) course structure.
If as a Dean’s Scholar, you wish to accelerate your program, please consult with the Course Coordinator.

Programme for continuing students who commenced prior to 2006.
Due to the major restructure of our Postgraduate Studies commencing in 2008, continuing DeanOs Scholars who commenced prior to 2006 are advised to consult the Course Coordinator regarding their remaining program.
Medical - Dean's Scholars Course Structure

Programme for students who commence 2006 onwards.

See EN40 Bachelor of Engineering (Medical) course structure.

If as a Dean's Scholar, you wish to accelerate your program, please consult with the Course Coordinator.

Programme for continuing students who commenced prior to 2006.

Due to the major restructure of our Postgraduate Studies commencing in 2008, continuing Dean's Scholars who commenced prior to 2006 are advised to consult the Course Coordinator regarding their remaining program.

Telecommunications Dean's Scholars Course Structure

Programme for students who commence 2006 onwards.

See EN40 Bachelor of Engineering (Telecommunications) course structure.

If as a Dean's Scholar, you wish to accelerate your program, please consult with the Course Coordinator.

Programme for continuing students who commenced prior to 2006.

Due to the major restructure of our Postgraduate Studies commencing in 2008, continuing Dean's Scholars who commenced prior to 2006 are advised to consult the Course Coordinator regarding their remaining program.

Potential Careers:
Bioengineer, Biomechanical Engineer, Biomedical Engineer, Civil Engineer, Computer Systems Engineer, Data Communications Specialist, Electrical and Computer Engineer, Electrical Engineer, Environmental Engineer, Manager, Mechanical Engineer, Medical Biotechnologist, Medical Engineer, Rehabilitation Engineer, Software Engineer, Systems Analyst, Systems Manager, Systems Programmer.
Master of Engineering (Systems) (EN50)

Year offered: 2008
Admissions: Yes
CRICOS code: 060811A
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: $12,960
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)
Domestic Entry: February and July
International Entry: February and July
Total credit points: 96
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Jay Yang
(Discipline coordinator: Dr Michael Mason (Course Leader))
Campus: Gardens Point

Overview
This course provides a developmental path for professional engineers to master skills in selected engineering disciplines and the interaction of those disciplines. It aims to enhance your skills in dealing with more complex engineering problems and interactions between engineering technical domains and the broader context in which they exist. Systems engineering is concerned with the design, operation and maintenance of electrical and mechanical systems that are employed in medical, aerospace, industrial settings, and in communications technology. This course advances your capabilities in information literacy, problem solving, application of theory, engineering design, communication, and interaction with other professionals. Early exit with a Graduate Diploma is available upon completion of four units in the course.

Entry Requirements
A four-year full-time bachelor degree in a relevant engineering discipline area and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

Career Outcomes
Graduates may choose to become a specialist systems engineering practitioner within their chosen professional field, or use the skills and knowledge gained to diversify their capabilities across a broader spectrum of systems-related disciplines. In particular, this course provides graduates with the skills and knowledge to become a leader, manager and innovator in the chosen discipline. Graduates may typically work in government, semi-government or private organisations as electrical, mechanical, biomedical or avionics engineers.

International Student Entry
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course structure - February Entry

| Year 1, Semester 1 | BEN610 | Project Management Principles |
| BEN910 | Integrated Project |
| ENN520 | Advanced Signal Processing and Systems |
| ENN540 | Engineering Optimisation |
| GSN235 | Communication, Negotiation and Leadership |

| Year 2, Semester 1 |
| BEN710 | Sustainable Practice in Built Environment and Engineering |
| BEN910 | Integrated Project |
| ENN560 | System Design |
| ENN580 | Control Systems |

Part-time Course Structure - Year 1, Semester 1

| BEN610 | Project Management Principles |
| ENN520 | Advanced Signal Processing and Systems |

| Year 1, Semester 2 | ENN560 | System Design |
| ENN580 | Control Systems |

| Year 2, Semester 1 | ENN540 | Engineering Optimisation |
| GSN235 | Communication, Negotiation and Leadership |

| Year 2, Semester 2 |
| BEN710 | Sustainable Practice in Built Environment and Engineering |
| BEN910 | Integrated Project |

Course structure - Mid Year Entry

| Full-time Course Structure - Year 1, Semester 2 |
| BEN710 | Sustainable Practice in Built Environment and Engineering |
| ENN560 | System Design |
| ENN580 | Control Systems |
| GSN235 | Communication, Negotiation and Leadership |

<p>| Year 2, Semester 1 |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BEN610</td>
<td>Project Management Principles</td>
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<tr>
<td>BEN910</td>
<td>Integrated Project</td>
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<tr>
<td>ENN520</td>
<td>Advanced Signal Processing and Systems</td>
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<tr>
<td>ENN540</td>
<td>Engineering Optimisation</td>
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</tbody>
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**Part-time Course Structure - Year 1, Semester 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ENN560</td>
<td>System Design</td>
</tr>
<tr>
<td>ENN580</td>
<td>Control Systems</td>
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**Year 2, Semester 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BEN610</td>
<td>Project Management Principles</td>
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<tr>
<td>ENN520</td>
<td>Advanced Signal Processing and Systems</td>
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**Year 2, Semester 2**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BEN710</td>
<td>Sustainable Practice in Built Environment and Engineering</td>
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<tr>
<td>GSN235</td>
<td>Communication, Negotiation and Leadership</td>
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**Year 3, Semester 1**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BEN910</td>
<td>Integrated Project</td>
</tr>
<tr>
<td>ENN540</td>
<td>Engineering Optimisation</td>
</tr>
</tbody>
</table>
Bachelor of Engineering (Electrical)/Bachelor of Mathematics (IF21)

Year offered: 2008
Admissions: Yes
CRICOS code: 020329J
Course duration (full-time): 5 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $20,928; CSP $6,712
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 419572
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: MATHS: QUT unit Preparatory Mathematics and Engineering course Mathematics Bridging; ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 480
Standard credit points per full-time semester: 48
Course coordinator: Dr R. Mahalinga-Iyer (Engineering); Associate Professor Graeme Pettet (Mathematics)
Discipline coordinator: Dr Ed Palmer (Engineering)
Campus: Gardens Point

Recommended study
Chemistry, Maths C and Physics are recommended.

Career Opportunities
Electrical and computer engineers design, install and maintain electrical, electronic, telecommunications and computing systems on behalf of government and private companies. A stronger training in mathematics and statistics enhances capabilities in modelling, analysis and design.

Overview
The program integrates both the engineering and mathematics degree. Mathematics and engineering have always had close connections, but recent advancement in mathematics and statistics are increasingly being used to help solve complex engineering problems.

Special Course Requirements
A candidate for this course must obtain at least 60 days of industrial experience in an engineering environment approved by the course coordinator.

Professional Recognition
This degree meets the requirements for membership of Engineers Australia, and the coursework requirements for accredited graduate membership of the Australian Mathematical Society. Students may also become a member of the Statistical Society of Australia.

Mathematics Bursaries
Students enrolled in this course can apply for industry-sponsored bursaries. These bursaries are awarded to Australian citizens or permanent residents on a competitive basis. Applications should be submitted by 1 December of the year preceding entry to the course. For further information see www.maths.qut.edu.au

Contact Details
Electrical Coordinator
Dr Ed Palmer
Email: bee.enquiries@qut.com

Mathematics Coordinator
Associate Professor Graeme Pettet
Phone: +61 7 3138 5238
Email: g.pettet@qut.edu.au

Further information
Phone +61 7 3138 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Course structure - For students with four semesters of Senior Mathematics B and Senior Mathematics C

For students with four semesters of both Senior Mathematics B and Senior Mathematics C (or equivalent) with an exit assessment of at least Sound Achievement in both subjects.

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Year 1, Semester 1
BEB100 Introducing Professional Learning
MAB111 Mathematical Sciences 1B
MAB112 Mathematical Sciences 1C
PCB136 Engineering Physics 1C

Year 1, Semester 2
ENB101 Engineering Mechanics 1
ENB103 Electrical Engineering
MAB101 Statistical Data Analysis 1
MAB210 Statistical Modelling 1

Year 2, Semester 1
null
### ENB240 Introduction To Electronics
### ENB246 Engineering Problem Solving
### MAB220 Computational Mathematics 1
### MAB311 Advanced Calculus

#### Year 2, Semester 2
- ENB243 Linear Circuits and Systems
- ENB244 Microprocessors and Digital Systems
- MAB413 Differential Equations
- Mathematics elective (Level 2 or 3)

#### Year 3, Semester 1
- ENB242 Introduction To Telecommunications
- ENB350 Real-time Computer-based Systems
- MAB312 Linear Algebra
- MAB314 Statistical Modelling 2

#### Year 3, Semester 2
- ENB245 Introduction To Design and Professional Practice
- ENB352 Communication Environments For Embedded Systems
- MAB420 Computational Mathematics 2
- MAB480 Introduction to Scientific Computation
  - OR
  - Computing Elective

#### Year 4, Semester 1
- ENB301 Instrumentation and Control
- ENB340 Power Systems and Machines
- ENB342 Signals, Systems and Transforms
  - Mathematics elective (Level 3)

#### Year 4, Semester 2
- ENB345 Advanced Design and Professional Practice
- ENB346 Digital Communications
- ENB458 Modern Control Systems
- MAB414 Applied Statistics 2

#### Year 5, Semester 1
- BEB701 Work Integrated Learning 1
- BEB801 Project 1
  - Applications Minor Selective
  - Mathematics elective (Level 3)

#### Year 5, Semester 2
- BEB802 Project 2
- ENB344 Industrial Electronics
  - Applications Minor Selective
  - Mathematics elective (Level 3)

### Applications Minor Selectives - Same as for EN40

### Electrical.
Please refer to EN40 Electrical Course Structure - Standard Program.

### Course structure - For students with fours semesters of Senior Mathematics B (or equivalent) only

For students with four semesters of Senior Mathematics B (or equivalent) only, with an exit assessment of at least Sound Achievement.

#### Year 1, Semester 1
- BEB100 Introducing Professional Learning
- MAB100 Mathematical Sciences 1A
- MAB101 Statistical Data Analysis 1
- PCB136 Engineering Physics 1C

#### Year 1, Semester 2
- ENB101 Engineering Mechanics 1
- ENB103 Electrical Engineering
- MAB111 Mathematical Sciences 1B
- MAB112 Mathematical Sciences 1C

#### Year 2, Semester 1
- ENB240 Introduction To Electronics
- ENB246 Engineering Problem Solving
- MAB220 Computational Mathematics 1
- MAB311 Advanced Calculus

#### Year 2, Semester 2
- ENB243 Linear Circuits and Systems
- ENB244 Microprocessors and Digital Systems
- MAB210 Statistical Modelling 1
- MAB413 Differential Equations

#### Year 3, Semester 1
- ENB242 Introduction To Telecommunications
- ENB350 Real-time Computer-based Systems
- MAB312 Linear Algebra
- MAB314 Statistical Modelling 2

#### Year 3, Semester 2
- ENB245 Introduction To Design and Professional Practice
- ENB352 Communication Environments For Embedded Systems
- MAB420 Computational Mathematics 2
- MAB480 Introduction to Scientific Computation
  - OR
  - Computing Elective

#### Year 4, Semester 1
- ENB301 Instrumentation and Control

#### Year 4, Semester 2
- ENB245 Introduction To Design and Professional Practice
- ENB352 Communication Environments For Embedded Systems
- MAB420 Computational Mathematics 2
- MAB480 Introduction to Scientific Computation
  - OR
  - Computing Elective

#### Year 5, Semester 1
- ENB301 Instrumentation and Control
ENB340  Power Systems and Machines
ENB342  Signals, Systems and Transforms
Mathematics elective (Level 3)

Year 4, Semester 2
ENB345  Advanced Design and Professional Practice
ENB346  Digital Communications
ENB458  Modern Control Systems
MAB414  Applied Statistics 2

Year 5, Semester 1
BEB701  Work Integrated Learning 1
BEB801  Project 1
Applications Minor Selective
Mathematics elective (Level 3)

Year 5, Semester 2
BEB802  Project 2
ENB344  Industrial Electronics
Applications Minor Selective
Mathematics elective (Level 3)

Applications Minor Selectives - Same as for EN40 Electrical.

Please refer to EN40 Electrical Course Structure - Standard Program.

Mathematics Electives (Level 2)

MAB422  Mathematical Modelling
MAB461  Discrete Mathematics

Mathematics Electives (Level 3)

Four units required:
MAB521  Applied Mathematics 3
MAB522  Computational Mathematics 3
MAB524  Statistical Inference
MAB533  Statistical Techniques
MAB536  Time Series Analysis
MAB613  Partial Differential Equations
MAB624  Applied Statistics 3
MAB672  Advanced Mathematical Modelling

NOTES:
- For students commencing in 2004 onwards, the units MAB523 Introduction to Quality Management and MAB621 Discrete Mathematics do not contribute to the mandatory 48 credit points minimum from Level 3 Mathematics units. This does not apply to students who commenced prior to 2004.
- Some deviations from the above course structure may be possible with the permission of the course coordinator. This is more likely to apply in the later years than the earlier years of the course.

Potential Careers:
Electrical and Computer Engineer, Electrical Engineer, Mathematician, Statistician.

-
Bachelor of Engineering (Electrical)/Bachelor of Business (IF28)

Year offered: 2008
Admissions: No
CRICOS code: 027278C
Course duration (full-time): 5 years

Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $20,928; CSP $7,113
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)

Domestic Entry: February
International Entry: February
QTAC code: 419532; Dfee: 419536
Past rank cut-off: 80. Dfee places were not offered last year.
Past OP cut-off: 10. Dfee places were not offered last year.
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: MATHS: QUT unit Data Analysis for Business as a visiting student or QUT Continuing Professional Education course Mathematics Bridging; ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com

Total credit points: 480
Standard credit points per full-time semester: 48 (average)

Course coordinator: Dr R.Mahalinga-Iyer (Engineering); Mr Andrew Paltridge (Business)
Discipline coordinator: Dr Ed Palmer (Engineering); Dr John Sweetering (Accountancy); Ms Gayle Kerr (Advertising); Dr John Chen (Banking & Finance); Dr Radhika Lahiri (Economics); Ms Sherrena Buckby (Electronic Business); Dr Paul Barnes (Human Resource Management); Mr Simon Ridings (International Business); Dr Paul Barnes (Management); Mr Bill Proud (Marketing); and Ms Robina Xavier (Public Relations).

Campus: Gardens Point

Discontinuation
From Semester 1, 2007, this course has been renamed and recoded to IX28 Bachelor of Business/Bachelor of Engineering. Currently enrolled students who wish to remain in, and graduate from the existing program will be permitted to do so up to the end of 2009. From Semester 1, 2010, all students will be enrolled in the new program.

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This course has been discontinued. Currently enrolled students should check the Course Summary Sheet (via QUT Virtual) for enrolment and unit information.
**Doctor of Philosophy (Built Environment, Engineering) (IF49)**

**Year offered:** 2008  
**Admissions:** Yes  
**CRICOS code:** 006367J  
**Course duration (full-time):** 2 years (max. 4 years)  
**Course duration (part-time):** 4 years (max. 8 years)  
**Domestic fees (per credit point):** RTS/RTA: 2008 Full fee $135 per credit point (exceeded max. entitlement)  
(subject to annual review)  
**Domestic fees (indicative):** 2008: $12,960 (exceeded max entitlements)  
**International Fees (per semester):** 2008: $11,184 per semester (subject to annual review)  
**Domestic Entry:** At any time  
**International Entry:** At any time  
**Campus:** Gardens Point

**Entry Requirements**  
First class or second class division A honours degree, an appropriate Masters Degree (research or coursework), or a professional doctorate, from a recognised institution. Masters degree by coursework and professional doctorates must contain a significant research component, of no less than 33 per cent of the total degree, and must have a GPA of at least 5.5 on a 7 point scale.

**Overview**  
This program provides in-depth research training in particular areas of built environment and engineering while broadening knowledge in a chosen discipline area. In the multimodal program candidates conduct research away from QUT, often in the workplace, either in Australia or overseas. Videoconferencing, email and other technologies make it possible for candidates to participate in activities such as seminar delivery and progress reporting.

Candidates would normally undertake their Confirmation of Candidature and Final Seminar in person. A QUT staff member of the supervisory team would normally visit the candidate at their research site at least once during their candidature. External candidates must normally spend a minimum of three months at QUT and be present in person for their confirmation of Candidature and Final Seminar. Doctoral studies normally include:  
* assessed coursework  
* participation in university scholarly activities such as research seminars, teaching and publication  
* regular meetings with supervisors  
* a program of supervised research and investigation  
* preparation of a thesis. Candidates can enrol in a doctoral program through the Faculty Research Centre.

**Fees**  
Australian citizens and permanent residents will be awarded a Research Training Scheme (RTS) place. Domestic students are not required to apply for an RTS entitlement, as it will be automatically allocated. The RTS covers tuition fees but not Guild fees or other study related costs. PhD Students are entitled to four years full-time equivalent study under these schemes. Students who exceed this entitlement may apply to QUT for extension, however the University may charge fees for the period of the program, which exceeds the student's entitlement. The University determines the fee level.

**Research Areas**  
**Areas of research interest**  
You can enrol in a research program in the following thematic areas of research:  
* Infrastructure (Energy, Water, Housing and Construction)  
* Smart Systems (Speech and signal processing, robotics and automation, and infrastructure and asset management)  
* Medical Engineering (Orthopaedics & trauma, Biomedical modelling and simulation) and  
* Design (industrial design, interior design, urban design and architecture).

**DESIGN**  
The DESIGN theme includes research in Architecture, Industrial Design, Interior Design, Landscape Architecture and Urban Design. It focuses on Subtropical Design, Digital Design, Human-centred Design Research and Useability, Built Environment Design Areas, Cultural Landscape, Design for Aging, Design and Research Methodologies and Design Education. The theme is cross/inter - disciplinary related with relevant fields in the Faculty (e.g. mechanical/manufacturing/medical engineering; transport engineering; structures and designs; electronic systems and informatics environment) and across the University community (e.g. Institute for Health and Biomedical Innovation (IHB1), Institute for Creative Innovation (ICi), Information Security Institute (ISI), Institute for Sustainable Systems and Resources and relevant Collaborative Research Centres (CRC).

**MEDICAL ENGINEERING**  
This program aims to engender sustainable improvements in quality of life for everybody through the innovative application of new and emerging technologies which will not only help reduce the economic burden of healthcare provision, but also generate wealth for the nation through the stimulation of local industry. Under two broad headings, the program encompasses the following research areas:  
* Orthopaedic and Trauma  
  The Orthopaedic and Trauma group has seven principal areas of focus: bone defects; fracture healing; pathogenesis and repair of osteoarthritis; biomaterials; new approaches to minimally invasive surgery; paediatric and adult spine research; and clinical outcomes.  
* Biomechanics, Modelling and Simulation  
  Apart from orthopaedic research, the Medical Engineering program also encompasses many other areas studying the application of mechanical and electrical engineering to clinically related healthcare problems. These include: amputee gait analysis; paediatric gait analysis; performance of paralympic athletes; osseointegrated implants; spinal and pelvic mechanics; paediatric spine deformity; artificial organs, specifically ventricular assist devices (artificial heart) and artificial lungs; tissue mechanics; bioelectrical signal analysis; tribology of artificial joints; and the interface...
between devices and the human body.

**MEDICAL ENGINEERING - Biomechanical Modelling and Simulation**

**SMART SYSTEMS - Infrastructure and Asset Management**

Infrastructure research, in collaboration with industry, government and professions, aims to strengthen the nation's building and infrastructure systems. Research concentrates on investigating the performance of existing and new building and infrastructure systems under realistic structural and environmental loadings including those due to natural, accidental and man-made hazards. It uses smart materials, systems and technologies, and advanced computer analysis and test methods to assess and improve the performance of existing and new building and infrastructure systems.

Asset Management research focuses on innovative industry directed research and development, education and commercialisation in an integrated approach to lifecycle physical asset management to meet present and future needs to ensure international competitiveness and sustainability of Australian industry. The overall research program will be focused on five main industry sectors: Defence, Water and Waste, Power Generation and Distribution, Extraction and Process and Transport Infrastructure.

This research is closely aligned to the CRC for Construction Innovation and the CRC for Integrated Engineering Asset Management.

**SMART SYSTEMS - Robotics and Automation**

The Robotics and Automation program is focussed on world-class research on robotics and navigation systems for unmanned aerial vehicles, and involves collaboration with CSIRO and Boeing. However similar automation strategies and technologies are used in a variety of control applications such as energy network control, and infomechatronic systems, and satellites.

**SMART SYSTEMS - Speech and Signal Processing**

This program conducts internationally competitive research in order to solve practical problems, which enable Speech, and Signal Processing to be applied in products and processes. Research focuses on, state-of-the-art speech audio and video technologies including speech/speaker recognition and personal identification technologies for forensic and security applications; speech coding for storage and communication; speech synthesis for voice response systems; audio compression for broadcasting, television and Internet applications, video compression and image recognition and restoration.

**INFRASTRUCTURE - Energy**

The provision of sustainable energy supplies is of critical importance to the future of Australia, and this research involves experimental and theoretical research on solar cells, wind energy and solar thermal energy generation as well as fundamental research on energy supply networks, including distributed generation technology and energy policy. This research in conducted in collaboration with energy utilities and the Queensland Sustainable Energy Industry Development Group.

**INFRASTRUCTURE - Water**

The supply of fresh water and the quality of water supply are key issues facing Australia over the next 20 years, and this research looks at water re-use technology and policy. The research is practically focussed with significant collaboration with local government in South-East Queensland.

**INFRASTRUCTURE - Transport**

The aim of this program is to focus research effort in the freight and logistics area with an emphasis on multi-modal transportation systems. The main research areas include freight vehicle impacts, freight and logistics e-business systems, freight corridor evaluation analysis, ITS applications in freight and logistics, emissions modelling, transit evaluation methodologies, rail track modelling and analysis, and intermodal terminal planning and operations.

**INFRASTRUCTURE - Housing and Construction**

This research makes contributions to improved practice in the specific areas of housing, urban planning, international project management, construction and property performance, construction information and procurement technologies, and property market choice, investments, constraints opportunities, internationalisation, taxation, lifecycles, risk and culture.

The Faculty is also involved in the following Cooperative Research Centres (CRC) and externally-funded collaborative research ventures:

**CRC FOR CONSTRUCTION INNOVATION**

The Centre aims to create and commercially exploit tools, technologies and management systems to deliver innovative constructed assets of financial, environmental and social benefit to the community. The centre combines basic research with strategic research and development in five related programs: virtual environments for lifecycle design and construction; construction project delivery strategies; environmental sustainability; integrated design and construction support systems; and management, adaptability and the future of built assets.

**CRC FOR INTEGRATED ENGINEERING ASSET MANAGEMENT**

The CRC for Integrated Engineering Asset Management (CIEAM) delivers capabilities and technologies for integrated and sustainable asset management to a wide range of Australian industries in both the private and the public sectors. CIEAM consists of leading edge researchers and practitioners focused on industry directed R&D and education in the management of Australia's major engineering assets in the Defence, Utilities (power, water and gas), Process and extraction, and Transportation industries. CIEAM involves five research program areas. These are: Models and decision systems, Advanced sensors, Intelligent diagnostics and life prediction, Systems integration and IT, and Strategic human dimensions.
TECHNOLOGIES
The Centre aims through research to develop an internationally competitive, efficient and sustainable rail industry and to facilitate the development of an Australian export industry in railway technologies. Benefits will flow in terms of improved rail efficiency and infrastructure capacity, energy savings, reduced maintenance cost and better asset utilisation. The main research areas include: 'Smart train' intelligent systems; innovative/automated maintenance and upgrading technologies; optimal traffic control and scheduling; IT systems and standards for rail management; new materials, systems and components for railways; and, industry skills development (education and training).

CRC FOR ADVANCED AUTOMOTIVE TECHNOLOGY
The CRC for Advanced Automotive Technology brings the automotive industry together with researchers in design, engineering and manufacturing to enhance the industry's international competitiveness. The aim of the research is to reduce the concept-to-product cycle times, improved manufacturing flexibility and efficiency and the development of new material systems to meet the challenges of weight reduction, increased safety and greater functionality. The CRC will also improve vehicle safety through improvements in the crash worthiness of vehicles and new intelligent products/systems that provide increased comfort, performance and entertainment.

AUSTRALIAN HOUSING AND URBAN INSTITUTE (AHURI):
The Institute is a consortium of CSIRO Division of Building, Construction and Engineering; Queensland University of Technology; University of Queensland; Monash University, and Royal Melbourne Institute of Technology (RMIT). Its broad objective is to conduct research into issues in housing and urban fields in Australia and the Asia-Pacific region.

CENTRE FOR SUBTROPICAL DESIGN
The Centre for Subtropical Design is one of the Faculty's first funded units in one of our major targeted areas: sustainable development. This Centre will promote high quality planning, design and development that responds to the City of Brisbane and South-East Queensland Region's cultural, landscape, and climatic characteristics in ways that are sustainable and enhance the enjoyment of the region's subtropical lifestyle.

QUEENSLAND SUSTAINABLE ENERGY INDUSTRY DEVELOPMENT GROUP
This group, formed in 2004 by QUT, the University of Queensland, Central Queensland University, Stanwell Corporation, CS Energy and the Queensland Conservation Council, is continuing the work of the Australian CRC for Renewable Energy in areas of energy policy, training for the sustainable energy industry (supply and use), and renewable energy technology.

AUSTRALIAN CENTRE FOR SUGAR RESEARCH INNOVATION
This Centre is the research division of the former Sugar Research Institute which transferred to QUT in July 2005. This Centre conducts research into the post-harvest processing and economics of sugar cane, and has a particular expertise in milling technology (mechanical engineering and computational fluid dynamics modelling), separation science, and total biomass utilisation, in particular the transformation of sugar cane waste into biofuels (ethanol) and biopolymers to provide renewable fuels and industrial chemicals.

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Further Information
The Centre for Built Environment and Engineering Research Phone +61 7 3138 1424, Fax +61 7 3138 8381, e-mail: bee.research@qut.edu.au
Bachelor of Engineering (Electrical)/Bachelor of Information Technology (IF59)

Year offered: 2008
Admissions: Yes
CRICOS code: 006384G
Course duration (full-time): 5 years
Domestic fees (per credit point): Commonwealth Supported Place: Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $20,928; CSP $6,960
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 419512
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: MATHS: QUT unit Preparatory Mathematics as a visiting student or Total credit points: 480
Standard credit points per full-time semester: 48
Course coordinator: Dr R. Mahalinga-Iyer (Engineering), Ruth Christie (Information Technology)
Discipline coordinator: Dr Ed Palmer (Engineering)
Campus: Gardens Point

Recommended Study
Chemistry, Math C and Physics are recommended.

Career Outcomes
Many graduates find employment in government instrumentalities such as communications, railways, electricity supply, hospitals, transport and in private organisations that are using electronics, electronic systems, computers and microprocessors to monitor, control, communicate and optimise processes and production.

Overview
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. This double 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.

Cooperative Education Program
An optional one-year period of paid work experience in an area of information technology is available to eligible full-time students. The Cooperative Education Program is a joint venture between employers and educators to better prepare students for employment upon graduation. Companies that QUT's Cooperative Education students have worked with include Energex, Boeing, CITEC, Global Banking and Securities Transaction, various Queensland Government departments, Dialog, TABQ, RACQ and Sun Microsystems.

For more information visit the Faculty's Cooperative Education program home page at www.fit.qut.edu.au/courses/undergrad/coop/

Professional Recognition
This degree meets the requirements for membership of Engineers Australia and the Institution of Radio and Electronics Engineers Australia. Graduates of the Bachelor of Information Technology component meet the knowledge requirements for admission to the Australian Computer Society (ACS).

Special Course Requirements
A candidate for the degree of Bachelor of Engineering (Electronics)/Bachelor of Information Technology must obtain at least 60 days of industrial experience in an engineering environment approved by the course coordinator.

Further Information
Engineering Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.edu.au
Faculty of Information Technology Phone +61 7 3864 2782, Fax +61 7 3864 2703, email: fit.enquiry@qut.edu.au

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

IF59 - B Engineering (Electrical)/B InfoTech

<table>
<thead>
<tr>
<th>Full-time Course Structure - Year 1, Semester 1</th>
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</thead>
<tbody>
<tr>
<td>BEB100</td>
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<tr>
<td>ITB001</td>
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<tr>
<td>PCB136</td>
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<tr>
<td>MAB180</td>
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<tr>
<td>MAB131</td>
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</table>

*MAB180 Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Mathematics C (or equivalent).

<table>
<thead>
<tr>
<th>Year 1, Semester 2</th>
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<tbody>
<tr>
<td>BEB200</td>
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<tr>
<td>ENB103</td>
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<tr>
<td>ITB003</td>
</tr>
</tbody>
</table>
MAB132  Engineering Mathematics 2A
OR
MAB182  Engineering Mathematics 2B
null

Year 2, Semester 1
ENB240  Introduction To Electronics
ITB004  Database Systems
ITB008  Modelling Analysis and Design
MAB233  Engineering Mathematics 3

Year 2, Semester 2
ENB243  Linear Circuits and Systems
ENB245  Introduction To Design and Professional Practice
ITB006  Networks
ITB007  Web Development

Year 3, Semester 1
ENB242  Introduction To Telecommunications
ENB340  Power Systems and Machines
IT Elective
IT Elective

Year 3, Semester 2
ENB241  Software Systems Design
ENB244  Microprocessors and Digital Systems
ENB345  Advanced Design and Professional Practice
IT Elective

Year 4, Semester 1
ENB342  Signals, Systems and Transforms
ENB343  Fields, Transmission and Propagation
ENB350  Real-time Computer-based Systems
IT Elective

Year 4, Semester 2
ENB344  Industrial Electronics
ENB346  Digital Communications
ITB009  Core Project Management
IT Elective

Year 5, Semester 1
ENB301  Instrumentation and Control
BEB801  Project 1
OR
ITB844-1  Project
IT Elective
Applications Minor Selective

Year 5, Semester 2
BEB701  Work Integrated Learning 1
ITB360 Corporate Systems
ITB361 Socio-technical Systems
ITB362 Organisational Databases
ITB363 Project Management Practice
ITB364 Information Systems Development
ITB365 Business Analysis
ITB366 Information Systems Operations
ITB370 Project
ITB705 Intelligent Systems
ITB702 Algorithms and Data Structures
ITB706 Systems Programming
ITB712 Software Engineering Studies
ITB713 Advanced Java Programming
ITB716 Advanced Web Applications Development
ITB717 Enterprise Software Architecture
ITB720 Internet Protocols and Services
ITB721 Unix Network Administration
ITB722 Network Planning and Deployment
ITB730 Information Security Fundamentals
ITB731 is offered bi-annually and will be available for 2009
ITB723 Wireless and Mobile Networks
ITB731 Security Technologies
ITB746 Modelling and Animation Techniques
ITB747 Real Time Rendering Techniques
ITB732 Cryptology and Protocols
ITB749 Scientific Programming
ITB750 Computer Game Studies
ITB751 Games Production
ITB761/2/3/4/5 Please check with the relevant coordinator for further information on Special Topics.
ITB762 Special Topic in 1/2008 is to be used for CCNA 1 & 2: Internetworking and Routing Basics
ITB761 Special Topic 1
ITB762 CCNA 1 & 2: INTERNETWORKING AND ROUTING BASICS
ITB763 Special Topic 3
ITB764 Special Topic 4
ITB765 Special Topic 5
ITB847 Computational Intelligence for Control and Embedded Systems
MAB281 Mathematics for Computer Graphics

Potential Careers:
Computer Systems Engineer, Electrical and Computer Engineer, Programmer, Software Engineer, Web Designer.
Bachelor of Engineering (Software Engineering) (IX25)

Year offered: 2008
Admissions: Yes
CRICOS code: 053707D
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full Fee Tuition $20,928; CSP $6,772
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 419502
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: MATHS: QUT unit Preparatory Mathematics as a visiting student or QUT Continuing Professional Education course Mathematics Bridging. ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Jasmine Banks
Campus: Gardens Point

Course Overview
The course is a collaborative program between the Faculties of Built Environment & Engineering and Information 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. 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.

Recommended Study
Chemistry, Maths C and Physics

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. You 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.

Professional Recognition
Professional accreditation from Engineers Australia and the Australian Computer Society is being sought.

Special course requirements
Students are required to complete 60 days approved industrial experience.

Further Information
Faculty of Built Environment and Engineering: tel: +61 7 3138 1993, fax: +61 7 3138 1516, email: bee.enquiries@qut.edu.au
Faculty of Information Technology: tel: +61 7 3138 2782, fax +61 7 3138 2703, email: fit.enquiry@qut.edu.au

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

IX25 - Bachelor of Engineering (Software Engineering) - Course structure

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
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<tbody>
<tr>
<td>BEB100</td>
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<td>OR</td>
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<td>MAB131</td>
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<td>PCB136</td>
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<tr>
<th>Year 1 - Semester 2</th>
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<tbody>
<tr>
<td>BEB200</td>
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<td>ENB103</td>
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<tr>
<td>ITB003</td>
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<tr>
<td>MAB132</td>
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<td>OR</td>
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<td>MAB182</td>
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<tr>
<th>Year 2 - Semester 1</th>
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<tr>
<td>ENB240</td>
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<td>ENB242</td>
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<tr>
<td>ITB004</td>
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<td>MAB233</td>
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<tr>
<th>Year 2 - Semester 2</th>
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<tbody>
<tr>
<td>ENB243</td>
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<tr>
<td>ENB244</td>
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<td>ITB006</td>
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**Year 3 - Semester 1**

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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>ENB350</td>
<td>Real-time Computer-based Systems</td>
</tr>
<tr>
<td>ENB354</td>
<td>Introduction To Systems Design</td>
</tr>
<tr>
<td>ITB702</td>
<td>Algorithms and Data Structures</td>
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<tr>
<td>ITB712</td>
<td>Software Engineering Studies</td>
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**Year 3 - Semester 2**

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<th>Course Code</th>
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<tr>
<td>ENB352</td>
<td>Communication Environments For Embedded Systems</td>
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<tr>
<td>ENB355</td>
<td>Advanced Systems Design</td>
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<tr>
<td>ITB009</td>
<td>Core Project Management</td>
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</table>

**Year 4 - Semester 1**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ITB720</td>
<td>Internet Protocols and Services</td>
</tr>
<tr>
<td>ITB730</td>
<td>Information Security Fundamentals</td>
</tr>
<tr>
<td>ITB749</td>
<td>Scientific Programming</td>
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<tr>
<td>ITB844-1</td>
<td>Project</td>
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<td>OR</td>
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<tr>
<td>BEB801</td>
<td>Project 1</td>
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**Year 4 - Semester 2**

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<tr>
<td>BEB701</td>
<td>Work Integrated Learning 1</td>
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<tr>
<td>ITB844-2</td>
<td>Project</td>
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<td>OR</td>
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<tr>
<td>BEB802</td>
<td>Project 2</td>
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<td>Elective</td>
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<td>Elective</td>
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</table>

**Potential Careers:**

Computer Systems Engineer, Data Communications Specialist, Electrical and Computer Engineer, Electrical Engineer, Software Engineer, Systems Programmer.
Bachelor of Business / Bachelor of Engineering (IX28)

Year offered: 2008  
Admissions: Yes  
CRICOS code: 061649J  
Course duration (full-time): 5 years  
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point  
(subject to annual review)  
Domestic fees (indicative): 2008: Full fee tuition $20,928; CSP $7,955  
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)  
Domestic Entry: February  
International Entry: February  
QTAC code: 419532  
Past rank cut-off: 76  
Past OP cut-off: 12  
OP Guarantee: Yes  
Assumed knowledge: English (4, SA) and Maths B (4, SA)  
Preparatory studies: MATHS: QUT unit Data Analysis for Business as a visiting student or QUT Continuing Professional Education course Mathematics Bridging; ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com  
Course coordinator: Dr R. Mahalinga-Iyer (Engineering); Mr Andrew Paltridge (Business)  
Discipline coordinator: Dr Ed Palmer (Engineering); Ms Ros Kent (Accountancy); Ms Gayle Kerr (Advertising); Dr John Chen (Banking & Finance); Dr Radhika Lahiri (Economics); Dr Paul Barnes (Human Resource Management); Mr Simon Ridings (International Business); Dr Paul Barnes (Management); Mr Bill Proud (Marketing); and Ms Robina Xavier (Public Relations).  
Campus: Gardens Point  

Recommended Study  
Chemistry, Maths C and Physics are recommended.  

Career Outcomes  
Electrical and computer engineers design, install and maintain electrical, electronic, telecommunications and computing systems on behalf of governments and private companies. Graduates of the Bachelor of Business are skilled in many aspects of business including: accountancy, advertising, banking and finance, economics, electronic business, human resource management, international business, management, marketing and public relations.  

Overview  
Students combine engineering knowledge in electronics, computer systems, telecommunications and electric power with a business course majoring in one or more of accountancy, advertising, banking and finance, economics, electronic business, human resource management, international business, management, marketing or public relations.  

Professional Recognition  
This degree meets the requirements for membership of Engineers Australia and the Institution of Radio and Electronics Engineers Australia.  
The Bachelor of Business degree may, subject to choice of major, extended major, or specialisation, allow graduates to satisfy the academic requirements for membership of: CPA Australia; Institute of Chartered Accountants in Australia; Chartered Secretaries Australia; Advertising Federation of Australia; Australian Association of National Advertisers; Australian Direct Marketing Association; Queensland Commercial Radio Association; Financial Services Institute of Australasia (FINSIA); Economics Society of Australia; Australian Human Resources Institute; Australian Institute of Management; Australian Institute of Training and Development; Australian Institute of Export; Australian Institute of Management; Australian Marketing Institute; Marketing Research Society of Australia; Australian Institute of Management; American Marketing Association and Public Relations Institute of Australia.  

Special Course Requirements  
A candidate for the degree of Bachelor of Engineering must obtain at least 60 days of industrial employment/practice in an engineering environment approved by the course coordinator, before graduating.  

Course Design  
Students are required to complete 480 credit points comprised of 252 credit points from the Bachelor of Engineering (Electrical & Computer Engineering) program and 192 credit points from the Bachelor of Business program. Students supplement the engineering component of this program with the 84* credit point Faculty Core units in the Bachelor of Business program together with a 72 credit point Major in one of the following: Accountancy, Advertising, Banking & Finance, Economics, Electronic Business, Human Resource Management, International Business, Management, Marketing or Public Relations, as well as a further 72 credit points in which the student must complete one of the following: Double Major, Extended Major or Specialisation.  

Further Information  
Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.edu.au  
Faculty of Business Phone +61 7 3864 2050, Fax +61 7 3864 1537, email bus@qut.edu.au  

Deferment  
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.  
Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.  

Find out more on deferment.
## Course structure - Accountancy

### Year 1 Semester 1
- BSB110 Accounting
- BSB111 Business Law and Ethics

### Year 1 Semester 2
- BSB122 Quantitative Analysis and Finance
- BSB113 Economics

### Year 2 Semester 1
- No Faculty of Business units studies this semester.

### Year 2 Semester 2
- BSB114 Government, Business and Society
- AYB121 Financial Accounting
- AYB223 Law of Business Associations

### Year 3 Semester 1
- AYB225 Management Accounting
- AYB220 Company Accounting

### Year 3 Semester 2
- AYB221 Computerised Accounting Systems

### Year 4 Semester 1
- AYB301 Auditing
- AYB311 Financial Accounting Issues
- AYB321 Strategic Management Accounting

### Year 4 Semester 2
- EFB101 Data Analysis for Business
- EFB210 Finance 1
- AYB325 Taxation Law

### Year 5 Semester 1
- BSB115 Management, People and Organisations

## Course structure - Banking & Finance

### Year 1 Semester 1
- BSB113 Economics
- BSB115 Management, People and Organisations

### Year 1 Semester 2
- BSB114 Government, Business and Society
- BSB126 Marketing

### Year 2 Semester 1
- No Faculty of Business units studies this semester.

### Year 2 Semester 2
- BSB110 Accounting
- BSB122 Quantitative Analysis and Finance
- BSB119 International and Electronic Business

### Year 3 Semester 1
- EFB101 Data Analysis for Business
- EFB210 Finance 1

### Year 3 Semester 2
- EFB307 Finance 2

### Year 4 Semester 1
- EFB200 Applied Regression Analysis
- EFB318 Portfolio and Security Analysis

## Course structure - Advertising

### Year 1 Semester 1
- BSB122 Quantitative Analysis and Finance
- BSB126 Marketing

### Year 1 Semester 2
- BSB110 Accounting
- BSB115 Management, People and Organisations

### Year 2 Semester 1
- No Faculty of Business units studies this semester.

### Year 2 Semester 2
- AMB221 Advertising Copywriting
- AMB222 Media Planning

### Year 3 Semester 1
- AMB220 Advertising Theory and Practice

### Year 3 Semester 2
- BSB119 International and Electronic Business

### Year 4 Semester 1
- AYB320 Advertising Management
- AYB330 Advertising Strategy and Planning

### Year 4 Semester 2
- BSB113 Economics
- AYB321 Advertising Campaigns
- AYB202 Integrated Marketing Communication

### Year 5 Semester 1
- BSB114 Government, Business and Society

## Course structure - Built Environment and Engineering
### Course structure - Economics

#### Year 1 Semester 1
- BSB113 Economics
- BSB115 Management, People and Organisations

#### Year 1 Semester 2
- BSB114 Government, Business and Society
- BSB110 Accounting

#### Year 2 Semester 1
- No Faculty of Business units studies this semester.

#### Year 2 Semester 2
- BSB122 Quantitative Analysis and Finance
- BSB119 International and Electronic Business
- EFB102 Economics 2

#### Year 3 Semester 1
- MGB207 Human Resource Issues and Strategy
- MGB220 Management Research Methods

#### Year 3 Semester 2
- MGB200 Leading Organisations

#### Year 4 Semester 1
- BSB111 Business Law and Ethics
- EFB200 Applied Regression Analysis

#### Year 4 Semester 2
- EFB328 Public Economics and Finance
- EFB329 Contemporary Applications of Economics Theory
- EFB314 International Trade and Economic Competitiveness

#### Year 5 Semester 1
- BSB126 Marketing

### Course structure - Human Resource Management

#### Year 1 Semester 1
- BSB113 Economics
- BSB115 Management, People and Organisations

#### Year 1 Semester 2
- No Faculty of Business units studies this semester.

### Course structure - International Business

#### Year 1 Semester 1
- BSB126 Marketing
- BSB119 International and Electronic Business

#### Year 1 Semester 2
- BSB114 Government, Business and Society
- BSB122 Quantitative Analysis and Finance

#### Year 2 Semester 1
- No Faculty of Business units studies this semester.
Year 2 Semester 2
BSB110  Accounting
BSB111  Business Law and Ethics
BSB113  Economics

Year 3 Semester 1
IBB202  Fundamentals of International Finance
IBB217  Asian Business Development
or
IBB208  European Business Development

Year 3 Semester 2
IBB317  Contemporary Business in Asia
or
IBB308  Contemporary Business in Europe

Year 4 Semester 1
IBB210  Export Management
IBB213  International Marketing

Year 4 Semester 2
IBB205  Intercultural Communication and Negotiation
IBB300  International Business Strategy
IBB303  International Logistics

Year 5 Semester 1
BSB115  Management, People and Organisations

**Course structure - Management**

Year 1 Semester 1
BSB113  Economics
BSB115  Management, People and Organisations

Year 1 Semester 2
BSB114  Government, Business and Society
BSB126  Marketing

Year 2 Semester 1
No Faculty of Business units studies this semester.

Year 2 Semester 2
BSB111  Business Law and Ethics
BSB122  Quantitative Analysis and Finance
MGB200  Leading Organisations

Year 3 Semester 1
MGB210  Managing Operations
MGB223  Entrepreneurship and Innovation

Year 3 Semester 2
MGB212  Sustainability in a Changing Environment

Year 4 Semester 1
MGB309  Strategic Management
Management Option Unit

Year 4 Semester 2
MGB335  Project Management
BSB119  International and Electronic Business
Management Option Unit

Year 5 Semester 1
BSB110  Accounting

Management Option Unit List:

Students must choose 2 of the following units:
MGB218  Managing Business Growth
MGB201  Contemporary Employment Relations
MGB314  Organisational Consulting and Change
MGB315  Personal and Professional Development
IBB205  Intercultural Communication and Negotiation

**Course structure - Marketing**

Year 1 Semester 1
BSB122  Quantitative Analysis and Finance
BSB126  Marketing

Year 1 Semester 2
BSB114  Government, Business and Society
BSB119  International and Electronic Business

Year 2 Semester 1
No Faculty of Business units studies this semester.

Year 2 Semester 2
BSB111  Business Law and Ethics
BSB113  Economics
BSB115  Management, People and Organisations

Year 3 Semester 1
AMB200  Consumer Behaviour
AMB240  Marketing Planning and Management

Year 3 Semester 2
AMB201  Marketing and Audience Research

Year 4 Semester 1
AMB340  Services Marketing
AMB202  Integrated Marketing Communication

Year 4 Semester 2
AMB241  E-Marketing Strategies
AMB341  Strategic Marketing
### Course structure - Public Relations

#### Year 1 Semester 1
- BSB122 Quantitative Analysis and Finance
- BSB126 Marketing

#### Year 1 Semester 2
- BSB114 Government, Business and Society
- BSB119 International and Electronic Business

#### Year 2 Semester 1
- No Faculty of Business units studies this semester.

#### Year 2 Semester 2
- BSB115 Management, People and Organisations
- AMB201 Marketing and Audience Research
- AMB260 Public Relations Theory and Practice
- AMB261 Media Relations and Publicity
- AMB262 Public Relations Writing

#### Year 3 Semester 1
- AMB261 Media Relations and Publicity
- AMB262 Public Relations Writing

#### Year 3 Semester 2
- BSB113 Economics
- AMB360 Corporate Communication Management
- AMB370 Public Relations Cases

#### Year 4 Semester 2
- BSB111 Business Law and Ethics
- AMB361 Public Relations Campaigns
- AMB371 Corporate Communication Strategies

#### Year 5 Semester 1
- BSB110 Accounting

### Course structure - Civil Engineering

#### Year 1, Semester 1
- ENB101 Engineering Mechanics 1
- MAB131 Engineering Mathematics 1A
- OR
- MAB180 Engineering Mathematics 1B

#### Year 1, Semester 2
- ENB102 Engineering Mechanics 2
- ENB103 Electrical Engineering
- MAB132 Engineering Mathematics 2A

### Course structure - Electrical Engineering

#### Year 1, Semester 1
- BEB100 Introducing Professional Learning
- MAB131 Engineering Mathematics 1A
- OR
- MAB180 Engineering Mathematics 1B

#### Year 1, Semester 2
- ENB103 Electrical Engineering
- MAB132 Engineering Mathematics 2A
### Potential Careers:
Graduate Certificate in Research Commercialisation (IX97)

Year offered: 2008
Admissions: Yes
CRICOS code: External

Course duration (full-time): 1 semesters. The course must be completed within a maximum time period of 4 years.
Course duration (part-time): 2 semesters. The course must be completed within a maximum period of 8 years.
Course duration (external): 2 semesters. The course must be completed within a maximum period of 8 years.

Domestic fees (per credit point): 2008: $2,200 per unit (subject to annual review)
Domestic fees (indicative): 2008: $8,000
International Fees (per semester): 2008: $3,300 per unit (subject to annual review)

Domestic Entry: 2 entry points per year
International Entry: 2 entry points per year

Course coordinator: Professor Rod Wissler
Campus: Internet

Course Structure

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>IFP100</td>
<td>Knowledge Transfer and Research Commercialisation (Core Unit)</td>
</tr>
<tr>
<td>IFP101</td>
<td>Leadership and Workplace Communication</td>
</tr>
<tr>
<td>IFP102</td>
<td>Project Management and Research</td>
</tr>
<tr>
<td>IFP103</td>
<td>Public Policy and Research</td>
</tr>
<tr>
<td>IFP104</td>
<td>Entrepreneurial Foundations</td>
</tr>
<tr>
<td>IFP105</td>
<td>Principles and Practice of Research Management</td>
</tr>
<tr>
<td>IFP106</td>
<td>Managing Research Careers</td>
</tr>
</tbody>
</table>

Potential Careers:
Bachelor of Technology (Mechanical) Conversion Program (ME36)

Year offered: 2008
Admissions: No
CRICOS code: 020303G
Course duration (part-time): 3 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition: 2008 $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,375
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412543
Past rank cut-off: 93. Admission to course is based on special entry requirements in addition to a rank. Please refer to Special Entry Requirements.
Total credit points: 288 (including 144 cp advanced standing)
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Vladis Kosse
Campus: Gardens Point

Special Entry Requirements
Applicants must have completed an Advanced Diploma in Mechanical Engineering (or equivalent qualification) or a Bachelor of Science in an appropriate discipline.

Career Outcomes
Graduates from this degree may work closely with professional engineers and be involved in using advanced computer skills for technical analysis and detailed design, or administration. This degree was developed in direct response to industry needs and there is a strong focus on the employability of graduates in the practical, hands-on approach to subjects. The BTech is an alternative route for those wishing to continue study to professional engineer level. Graduates may commence in a design office doing calculations and preparing technical drawings from which final designs/systems will be constructed. Other areas of employment include the manufacturing sector, concerned with the organisation and maintenance of manufacturing facilities and the quality assurance and control of products. Graduates may be responsible for commissioning and managing staff and/or overseeing the operations of significant engineering plants such as mining, sugar mills, dairy factories and food processing operations.

Overview
This course builds on the practical skills gained through the TAFE Advanced Diploma by providing students with higher level theoretical knowledge, supported by laboratory and practical sessions. Subjects include design, manufacturing, materials, mechanical engineering sciences, and management.

Professional Recognition
This course has been accredited by Engineers Australia. Graduates are eligible for affiliate membership, providing them with official recognition as an engineering technologist. The three-year degree is recognised by the Singapore Institute of Engineering Technologists.

Additional Information
Candidates with an Advanced Diploma in Mechanical Engineering (or equivalent) or a relevant tertiary qualification (eg. Bachelor of Science or CAE Diploma in Mechanical Engineering) will automatically receive credit of 144 credit points.

Part-time Study
Prospective part-time students for this degree should be aware that they may need 9 to 12 hours release from their employment.

Special Course Requirements
Students must obtain at least 50 days of industrial experience with a minimum of 25 days in an engineering environment approved by the course coordinator.

Further Information
Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

Full-time course structure

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EEB781 Professional Studies 2</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>BSB115 Management, People and Organisations</td>
<td></td>
</tr>
<tr>
<td>ENB105 Electrical and Computer Engineering</td>
<td></td>
</tr>
<tr>
<td>ENB231 Materials and Manufacturing 1</td>
<td></td>
</tr>
<tr>
<td>MAB132 Engineering Mathematics 2A</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>MAB182 Engineering Mathematics 2B</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1 - Semester 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENB102 Engineering Mechanics 2</td>
<td></td>
</tr>
<tr>
<td>ENB201 Fluid Mechanics</td>
<td></td>
</tr>
<tr>
<td>ENB222 Thermodynamics 1</td>
<td></td>
</tr>
<tr>
<td>ENB317 Design and Maintenance of Machinery</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2 - Semester 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENB316 Design of Machine Elements</td>
<td></td>
</tr>
<tr>
<td>ENB331 Materials and Manufacturing 2</td>
<td></td>
</tr>
<tr>
<td>MGB207 Human Resource Issues and Strategy</td>
<td></td>
</tr>
<tr>
<td>MMB302 Project 2T</td>
<td></td>
</tr>
</tbody>
</table>

Part-time course structure

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENB231 Materials and Manufacturing 1</td>
<td></td>
</tr>
<tr>
<td>MAB132 Engineering Mathematics 2A</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td>MAB182</td>
<td>Engineering Mathematics 2B</td>
</tr>
<tr>
<td>ENB102</td>
<td>Engineering Mechanics 2</td>
</tr>
<tr>
<td>MMB376</td>
<td>Professional Practice (Engineering</td>
</tr>
<tr>
<td></td>
<td>Management)</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td>BSB115</td>
<td>Management, People and Organisations</td>
</tr>
<tr>
<td>ENB105</td>
<td>Electrical and Computer Engineering</td>
</tr>
<tr>
<td>ENB331</td>
<td>Materials and Manufacturing 2</td>
</tr>
<tr>
<td>ENB201</td>
<td>Fluid Mechanics</td>
</tr>
<tr>
<td>ENB222</td>
<td>Thermodynamics 1</td>
</tr>
<tr>
<td>ENB316</td>
<td>Design of Machine Elements</td>
</tr>
<tr>
<td>MGB207</td>
<td>Human Resource Issues and Strategy</td>
</tr>
<tr>
<td>ENB317</td>
<td>Design and Maintenance of Machinery</td>
</tr>
<tr>
<td>MMB302</td>
<td>Project 2T</td>
</tr>
</tbody>
</table>

**Potential Careers:**
Engineering Technologist, Mechanical Engineer.
# Advanced Diploma in Engineering (Mechanical)/Bachelor of Technology (Mechanical) (ME37)

**Year offered:** 2008  
**Admissions:** No  
**Course duration (full-time):** 3 years  
**Domestic fees (per credit point):** Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)  
**Domestic fees (indicative):** 2008: Full fee tuition $15,936; CSP $7,254  
**Domestic Entry:** February  
**QTAC code:** This course is no longer offered  
**Past rank cut-off:** 52 BNIT-Gateway; 50 MIT-Mt Gravatt; 50 YIT-Yeronga  
**Past OP cut-off:** 22 BNIT-Gateway; 24 MIT-Mt Gravatt; 24 YIT-Yeronga  
**Total credit points:** 288 (including 120 cp advanced standing)  
**Course coordinator:** Dr R. Mahalinga-Iyer  
**Discipline coordinator:** Dr Vladis Kosse  
**Campus:** Gardens Point

## Course Availability
This course is not taking new admissions/enrolments. Articulation from the TAFE to QUT for existing dual TAFE/QUT award students will be accepted up until semester one, 2008.

## Entry Requirements
Applicants must apply via QTAC and satisfy the entry requirements for the Advanced Diploma in Engineering (Mechanical) at Brisbane North Institute of TAFE, Moreton Institute of TAFE and Yeronga Institute of TAFE.

## Dual TAFE/QUT Awards
This dual award is a cooperative arrangement between QUT, the Brisbane North Institute of TAFE and Metropolitan South Institute of TAFE. It is a specially designed course offering a two-year Advanced Diploma at the participating TAFE institutes followed by a third year at QUT to qualify for a Bachelor of Technology degree. In their second year students study units from both QUT and TAFE.

## Career Outcomes
Technologists may work closely with professional engineers and be involved in using advanced computer skills for technical analysis and detailed design, or administration. Other areas of employment included the manufacturing sector concerned with the organisation and maintenance of manufacturing facilities and the quality assurance and control of products.

## Professional Recognition
This course has provisional accreditation from Engineers Australia (EA).

## Special Course Requirements
Students must obtain at least 50 days of industrial experience with a minimum of 25 days in a engineering environment approved by the course coordinator.

### Further Information
Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

### Deferment
QUT’s deferment policy does not apply to this course.

## Course Structure

<table>
<thead>
<tr>
<th>Year 2 - Semester 1 - TAFE/QUT</th>
<th>Year 2 - Semester 2 - TAFE/QUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA790 Manufacturing Processes</td>
<td>EB771 Advanced Dynamics</td>
</tr>
<tr>
<td>NE160 Electrical Principles</td>
<td>EA060 Engineering Design Concepts</td>
</tr>
<tr>
<td>ENB231 Materials and Manufacturing 1</td>
<td>EB704 Mechanical Design</td>
</tr>
<tr>
<td></td>
<td>ENB103 Electrical Engineering</td>
</tr>
<tr>
<td>MAB182 Engineering Mathematics 2B</td>
<td>MAB101 Statistical Data Analysis 1</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 - Semester 1 - QUT</th>
<th>Year 3 - Semester 2 - QUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENB105 Electrical and Computer Engineering</td>
<td>ENB201 Fluid Mechanics</td>
</tr>
<tr>
<td>ENB316 Design of Machine Elements</td>
<td>ENB222 Thermodynamics 1</td>
</tr>
<tr>
<td>ENB331 Materials and Manufacturing 2</td>
<td>ENB317 Design and Maintenance of Machinery</td>
</tr>
<tr>
<td>MMB300 Project 2T</td>
<td>MMB376 Professional Practice (Engineering Management)</td>
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</tbody>
</table>

**Note:**  
BSB, ENB, MAB, and MMB units = QUT units.

### Potential Careers:
Mechanical Engineer, Technical Officer.
Bachelor of Engineering (Infomechatronics) (ME40)

Year offered: 2008
Admissions: No
CRICOS code: 037550J
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: $20,928; CSP rate available July
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412502; Dfee: 412506
Past rank cut-off: 80. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.
OP Guarantee: Yes
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Gary Chadwick
Campus: Gardens Point

Additional Admission Information
The ME40 Bachelor of Engineering (Infomechatronics) course has been replaced by EN40 Bachelor of Engineering (Infomechatronics) from 2006 onwards. There will be no intake into the ME40 course in 2008 with the exception of QTAC applicants commencing their studies with at least 240 credit points of advanced standing (academic credit); i.e. those students who will be starting in the fourth year of the program.

If offered a place you are required to attend an in-person academic credit and enrolment session as detailed in your enrolment materials.

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.

Overview
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 emphasis 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.

Professional Recognition
This course has provisional accreditation from Engineers Australia (EA).

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

Articulation to Masters
Subject to University approval, students achieving a minimum performance criteria at the end of year 3 of the Bachelor of Engineering course, may be eligible to study two Master of Engineering Science or Master of Engineering Management units as electives. After successfully completing the Bachelor of Engineering course, students eligible to enrol in the Master of Engineering Science or Master of Engineering Management courses can then have these two units credited towards the Masters Program.

Further Information
Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

Deferment
QUT's deferment policy does not apply to this course.

Course structure

<table>
<thead>
<tr>
<th>Year 4 - Semester 1</th>
<th>Year 4 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEB521 Digital Systems and Control</td>
<td>MMB376 Professional Practice (Engineering Management)</td>
</tr>
<tr>
<td>ITB742 Computational Intelligence</td>
<td>MMB004 Infomechatronics Project</td>
</tr>
<tr>
<td>MMB478 Mechatronics System Design Elective</td>
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<tr>
<td></td>
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</tr>
<tr>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td>ENB242 Introduction To Telecommunications</td>
<td></td>
</tr>
<tr>
<td>ENB316 Design of Machine Elements</td>
<td></td>
</tr>
<tr>
<td>ENB344 Industrial Electronics</td>
<td></td>
</tr>
</tbody>
</table>
ENB350  Real-time Computer-based Systems
ITB006  Networks
ITB746  Modelling and Animation Techniques
or any unit approved by the Course Coordinator

null

Please check unit availability as not all units are offered every year.

Note:

Students must complete 60 days Industrial Experience

Potential Careers:
Manager, Manufacturer, Mechanical Engineer.
Bachelor of Engineering (Mechanical) (ME41)

Year offered: 2008
Admissions: No
CRICOS code: 003490G
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full Fee Tuition $20,928; CSP $6,375
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)
Domestic Entry: February and July
International Entry: February (July entry available to students entering with Advanced Standing)
QTAC code: 412502; Dfee: 412506
Past rank cut-off: 80. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.
OP Guarantee: Yes
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Gary Chadwick
Campus: Gardens Point

Additional Admission Information
The ME41 Bachelor of Engineering (Mechanical) course has been replaced by EN40 Bachelor of Engineering (Mechanical) from 2006 onwards. There will be no intake into the ME41 course in 2008 with the exception of QTAC applicants commencing their studies with at least 240 credit points of advanced standing (academic credit); i.e. those students who will be starting in the fourth year of the program.

If offered a place you are required to attend an in-person academic credit and enrolment session as detailed in your enrolment materials.

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, 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.

Overview

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.

Engineering Management Major
Students enrolled in the Bachelor of Engineering (Mechanical) have the opportunity to undertake a major in Engineering Management during the final two years of their degree. Students wishing to undertake the major should consult the course coordinator.

Professional Recognition
Graduates meet the requirements for membership of Engineers Australia, the Singapore Professional Engineers Board and the Lembaga Jurutera (Board of Engineers) Malaysia. The course is also professionally recognised by the Hong Kong Institution of Engineers, the UK Institution of Mechanical Engineers, the Institution of Professional Engineers, New Zealand, and the Institution of Engineers, Ireland. The Indonesian Directorate of Higher Education accredit the course as equivalent to the appropriate Indonesian degree.

Minors
Subject to the approval of the Course Coordinator, students may be able to choose a minor area of study. A minor is a collection of four units from the one study area, that totals 48 credit points. This will not affect the total number of credit points required for course completion. Students may choose from the list of minors, available from the office of the Faculty of Built Environment and Engineering.

Mid-year Entry
The ME42 Bachelor of Engineering (Mechanical) midyear course has been replaced by EN40 Bachelor of Engineering (Mechanical) from 2006 onwards. There will be no midyear intake into the ME42 course in 2007 with the exception of QTAC applicants commencing their studies with at least 168 credit points of advanced standing (academic credit).

If offered a place, you may be are required to attend an in-person academic credit and enrolment session as detailed in your enrolment materials.

Special course 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.

Further Information
Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

Deferment
QUT's deferment policy does not apply to this course.

Course structure
**Year 4 - Semesters 1 and 2**

**OPTION 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMB400</td>
<td>Industry Project</td>
</tr>
<tr>
<td></td>
<td>3 electives from Group A and 1 elective from Group B</td>
</tr>
</tbody>
</table>

**OPTION 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMB401-1</td>
<td>Project</td>
</tr>
<tr>
<td></td>
<td>3 electives from Group A and 1 elective from Group B</td>
</tr>
</tbody>
</table>

**Note:** Students in this course must complete 60 days industrial experience before graduating.

**Engineering Management Major**

Students wishing to undertake the Engineering Management major should consult their course coordinator.

**Year 4 - Semester 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMB375</td>
<td>Industrial Engineering</td>
</tr>
<tr>
<td>MMB470</td>
<td>Engineering Asset Management and Maintenance</td>
</tr>
<tr>
<td></td>
<td>Two units electives from Group C.</td>
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</tbody>
</table>

**Year 4 - Semester 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMB402-1</td>
<td>Engineering Management Project</td>
</tr>
<tr>
<td>MMB402-2</td>
<td>Engineering Management Project</td>
</tr>
</tbody>
</table>

**ME42 BEngineering (Mechanical) Mid-year entry**

**Year 4 - Semesters 1 and 2**

**OPTION 1**

<table>
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<th>Course Code</th>
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<tr>
<td>MMB400</td>
<td>Industry Project</td>
</tr>
<tr>
<td></td>
<td>3 electives from Group A and 1 elective from Group B</td>
</tr>
</tbody>
</table>

**OPTION 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMB401-1</td>
<td>Project</td>
</tr>
<tr>
<td></td>
<td>3 electives from Group A and 1 elective from Group B</td>
</tr>
</tbody>
</table>

**Note:** Students in this course must complete 60 days industrial experience before graduating.

**Engineering Management Major**

See February entry, ME41 B Engineering (Mechanical)

**Electives**

**Electives - Group A - Semester 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMB375</td>
<td>Industrial Engineering</td>
</tr>
<tr>
<td>MMB451</td>
<td>Energy Management</td>
</tr>
<tr>
<td>MMB461</td>
<td>Process Systems Design</td>
</tr>
<tr>
<td>MMB472</td>
<td>Design for Manufacturing 2</td>
</tr>
</tbody>
</table>

**Electives - Group A - Semester 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENB336</td>
<td>Industrial Engineering</td>
</tr>
<tr>
<td>MMB353</td>
<td>Tribology</td>
</tr>
<tr>
<td>MMB412</td>
<td>Finite Element Analysis</td>
</tr>
<tr>
<td>MMB413</td>
<td>Industrial Noise and Vibrations</td>
</tr>
<tr>
<td>MMB430</td>
<td>Advanced Materials</td>
</tr>
<tr>
<td>MMB450</td>
<td>Air Conditioning</td>
</tr>
<tr>
<td>MMB471</td>
<td>Computer Integrated Manufacturing</td>
</tr>
</tbody>
</table>

**Electives - Group B**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENB333</td>
<td>Operations Management</td>
</tr>
<tr>
<td>MMB470</td>
<td>Engineering Asset Management and Maintenance</td>
</tr>
<tr>
<td></td>
<td>Any Management unit approved by the Course Coordinator.</td>
</tr>
</tbody>
</table>

**Electives - Group C**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMB240</td>
<td>Marketing Planning and Management</td>
</tr>
<tr>
<td>BSB122</td>
<td>Quantitative Analysis and Finance</td>
</tr>
<tr>
<td>MGB211</td>
<td>Organisational Behaviour</td>
</tr>
<tr>
<td>MMB451</td>
<td>Energy Management</td>
</tr>
</tbody>
</table>

**Potential Careers:**

Mechanical Engineer.
Bachelor of Engineering (Mechanical) Conversion Program from Bachelor of Technology ME36/ME37 (ME41)

Year offered: 2008
Admissions: No
CRICOS code: 003490G
Course duration (full-time): 1.5 years

Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full Fee Tuition $20,928; CSP $6,375
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)

Domestic Entry: February and July
International Entry: February (July entry available to students entering with Advanced Standing)
QTAC code: 412502; Dfee: 412506
Past rank cut-off: 80. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.
OP Guarantee: Yes
Total credit points: 144
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Gary Chadwick
Campus: Gardens Point

Entry Requirements
Bachelor of Technology (Mechanical) from QUT. Applications are made using an I-form for the semester immediately after completion of ME36/37. Students wishing to enter at a later date must apply for the Bachelor Engineering (Mechanical) via QTAC.

Career Options
The Bachelor of Engineering (Mechanical) provides a sound education in the basic sciences, engineering sciences, engineering synthesis and design, the interrelationship between engineering and various management functions, and the social, economic and ethical aspects of engineering practice. Graduates from this degree may expect to find employment in a variety of roles: consultant, project manager, technical adviser. Some are given their initial graduate training in areas where they learn the operating characteristics and expected performance of large, integrated energy-based plants such as mining, power stations, sugar factories, oil refineries etc. Others work under the guidance of more experienced staff where they must select equipment, negotiate with suppliers and install and commission plants. Some graduates will go into design offices dealing with air conditioning and refrigeration systems, steam boilers and associated large materials handling plants. Those who go into manufacturing plants will be concerned principally with the logistics of production and the efficient management of people and systems.

Overview
This degree builds on the Bachelor of Technology and offers a balanced mix of theory and practice with the objective of preparing graduates for work as engineers.

Students will continue their studies to include more in-depth study of mechanical engineering sciences including hands-on, practical experience in real world problem solving and application of theory to suit industry needs.

Professional Recognition
This degree is recognised for the purpose of membership of Engineers Australia. It is professionally recognised by the Hong Kong Institution of Engineers, the UK Institution of Mechanical Engineers, the Institution of Professional Engineers, New Zealand, and the Institution of Engineers, Ireland. Graduates meet the requirements for membership of the Singapore Professional Engineers Board, and the Lembaga Jurutera (Board of Engineers) Malaysia. The course is also accredited by the Indonesian Directorate of Higher Education as equivalent to the appropriate Indonesian degree.

Further information
Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

Deferment
QUT’s deferment policy does not apply to this course.

Course structure

| Year 1, Semester 1 |
| ENB316 Design of Machine Elements |
| MAB312 Linear Algebra |
| MMB311 Mechanics 3 |
| Elective |
| See Electives under ME41-Bachelor of Engineering (Mechanical) |

| Year 1, Semester 2 |
| ENB317 Design and Maintenance of Machinery |
| ENB321 Fluids Dynamics |
| MAB101 Statistical Data Analysis 1 |
| MMB351 Thermodynamics |

| Year 2, Semester 1 |
| MMB400 Industry Project |
| OR |
| MMB401-1 Project |
| MMB401-2 Project |

Potential Careers:
Engineering Technologist, Mechanical Engineer, Technical Officer.
Bachelor of Engineering (Medical) (ME48)

Year offered: 2008
Admissions: No
CRICOS code: 003490G
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)
Domestic fees (indicative): 2008: $20,928; CSP $6,143
International Fees (per semester): 2008: $11,184 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412502; Dfee: 412506
Past rank cut-off: 80. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.
OP Guarantee: Yes
Total credit points: 384
Course coordinator: Dr R. Mahalinga-Iyer
Discipline coordinator: Dr Gary Chadwick
Campus: Gardens Point

Additional Admission Information
The ME48 Bachelor of Engineering (Medical) course has been replaced by EN40 Bachelor of Engineering (Medical) from 2006 onwards. There will be no intake into the ME48 course in 2008 with the exception of QTAC applicants commencing their studies with at least 240 credit points of advanced standing (academic credit); i.e. those students who will be starting in the fourth year of the program.

If offered a place you are required to attend an in-person academic credit and enrolment session as detailed in your enrolment materials.

Career Outcomes
Medical engineering integrates physical, chemical, mathematical, and computational sciences and engineering principles to study human biology, medicine, human behaviour and health. The Bachelor of Engineering (Medical) provides 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. Graduates from this degree may expect to find employment in hospitals as advisors 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.

Overview
This course provides students with the skills of mechanical engineering technology and the knowledge of the human body to design, manufacture and maintain equipment and aids for the medical, rehabilitation and sports environments. Students can choose electives such as a physiology, rehabilitation psychology and robotics in health care. 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.

Professional Recognition
This course is accredited by Engineers, Australia (EA).

Special Course 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.

Articulation to Masters
Subject to University approval, students achieving a minimum performance criteria at the end of year 3 of the Bachelor of Engineering course, may be eligible to study two Master of Engineering Science or Master of Engineering Management units as electives. After successfully completing the Bachelor of Engineering course, students eligible to enrol in the Master of Engineering Science or Master of Engineering Management courses can then have these two units credited towards the Masters Program.

Further Information
Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

Deferment
QUT's deferment policy does not apply to this course.

Course structure

<table>
<thead>
<tr>
<th>Year 4 - Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMB409-1 Project</td>
</tr>
<tr>
<td>MMB470 Engineering Asset Management and Maintenance</td>
</tr>
<tr>
<td>Elective from list A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMB409-2 Project</td>
</tr>
<tr>
<td>MMB492 Health Legislation and the Medical Environment</td>
</tr>
<tr>
<td>Elective from list B</td>
</tr>
</tbody>
</table>

Elective List A

| PUB112 Workplace Health and Safety |
| Any other elective approved by the Course Coordinator. |

Elective List B
MMB411  Advanced Automatic Control
MMB412  Finite Element Analysis
MMB494  Rehabilitation Equipment Design and Evaluation
MMB496  Modelling and Simulation for Medical Engineers
Any other elective approved by the Course Coordinator.

Potential Careers:
Bioengineer, Biomedical Engineer, Medical Engineer, Rehabilitation Engineer.
Graduate Certificate in Engineering Management (ME75)

Year offered: 2008
Admissions: No
CRICOS code: 018208C
Course duration (full-time): 1 semester
Course duration (part-time): 1 year
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960;
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)
Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
Total credit points: 48
Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Dr Achilles Leontakianakos
(Course Leader)
Campus: Gardens Point

Entry Requirements
A bachelor degree in engineering or relevant training and experience, as assessed by the course coordinator. Part-time students are expected to be employed in some professional engineering capacity.

Articulation to Masters Program
Students who enter the Graduate Certificate on the basis of relevant training and experience and obtain a grade point average of 5 or above maybe eligible to articulate with credit to the Master of Engineering Management program.

Overview
This course combines training in engineering management with advanced elective studies in related fields. It is suitable for those seeking to obtain a formal qualification in management while advancing engineering skills and knowledge. The core units provide an opportunity for postgraduate studies in engineering management, and the elective units allow specialisation in manufacturing and/or maintenance engineering. Applicants can take up to two electives from other disciplines.

Course Structure
Graduate Certificate students will take four units all of which are offered as part of the Master of Engineering Management.

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com
**Master of Engineering Management (ME76)**

**Year offered:** 2008  
**Admissions:** No  
**CRICOS code:** 006368G  
**Course duration (full-time):** 1 year  
**Course duration (part-time):** 2 years  
**Domestic fees (per credit point):** 2008: $135 per credit point (subject to annual review)  
**Domestic fees (indicative):** 2008: Full fee tuition $12,960;  
**International Fees (per semester):** 2008: $9,984 per semester (subject to annual review)  
**Domestic Entry:** This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.  
**International Entry:** This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.  
**Total credit points:** 96  
**Standard credit points per full-time semester:** 48  
**Course coordinator:** Associate Professor Jay Yang (Please refer all course enquiries to Course Leader.)  
**Discipline coordinator:** Dr Achilles Leontakianakos (Course Leader)  
**Campus:** Gardens Point

**Overview**
This course combines training in engineering management with advanced elective studies in related fields. It is suitable for those seeking to obtain a formal qualification in management while advancing engineering skills and knowledge. The core units provide an opportunity for postgraduate studies in engineering management, and the elective units allow specialisation in manufacturing and/or maintenance engineering.

**Entry Requirements**
A bachelor degree in engineering (or its equivalent).

**Course Structure**
Masters students take eight units or 96 credit points. Units MEN172, MEN177, and MEN280 are normally compulsory, but may be substituted with the approval of the course coordinator if the student has adequate prior knowledge in the relevant field. With approval of the Course Coordinator students can take up to two graduate level electives from other disciplines.

**International Student Entry**
QUT advises that International students may only enrol in full-time studies.

**Further Information**
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

**Course structure**

<table>
<thead>
<tr>
<th>Block Mode#</th>
<th>Units</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEN170</td>
<td></td>
<td>Systems Modelling and Simulation</td>
</tr>
<tr>
<td>MEN171</td>
<td></td>
<td>Advanced Manufacturing Technologies</td>
</tr>
<tr>
<td>MEN172</td>
<td></td>
<td>Cost Analysis and Asset Management</td>
</tr>
<tr>
<td>MEN175</td>
<td></td>
<td>Energy and Environmental Management</td>
</tr>
<tr>
<td>MEN177</td>
<td></td>
<td>Total Quality Management</td>
</tr>
<tr>
<td>MEN241</td>
<td></td>
<td>Reliability and Maintenance Management</td>
</tr>
<tr>
<td>MEN272</td>
<td></td>
<td>Enterprise Resources Planning</td>
</tr>
<tr>
<td>MEN273</td>
<td></td>
<td>Engineering Knowledge Management</td>
</tr>
<tr>
<td>MEN280</td>
<td></td>
<td>Engineering Project Management</td>
</tr>
</tbody>
</table>

**Semester 1 or 2**

<table>
<thead>
<tr>
<th></th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEN190-1</td>
<td>Project</td>
</tr>
<tr>
<td>MEN190-2</td>
<td>Project</td>
</tr>
</tbody>
</table>

Project may be taken over one or two semesters. Students taking Project over one semester must enrol in both components of the unit concurrently. Course coordinator approval is required to take Project.

**# Block Mode**
Block mode classes are held in teaching periods, which run consecutively for 5 weeks at a time, instead of semesters. Classes are held on Tuesday and Thursday from 4pm to 8pm, and Saturday from 9am to 5pm in the first two weeks of a teaching period. Please check QUT Virtual or contact the School Administration Officer for details of teaching periods for the above block mode units.

**Note:**
Students complete 8 units. Units MEN172, MEN177 and MEN280 are normally compulsory, but may be substituted with the approval of the course coordinator if the student has adequate prior knowledge in the relevant field.  
* Permission of the course coordinator required.
Master of Engineering Science (Mechanical Engineering Studies) (ME80)

Year offered: 2008
Admissions: No
CRICOS code: 042261J
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960
International Fees (per semester): No new admissions (subject to annual review)

Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.

Total credit points: 96
Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Dr Achilles Leontakianakos
(Course Leader)
Campus: Gardens Point

Entry Requirements
A Bachelor of Engineering degree with honours in Mechanical Engineering OR equivalent, with a grade point average of at least 5 on a 7-point scale.

Course Structure
The flexible Master of Engineering Science (Mechanical Engineering Studies) program allows students to choose 3 units from a common pool of units offered by all the Engineering Schools (Band 1). A band of Mechanical Engineering units is then offered from which students choose 3 (Band 2). Any units from Band 1 could also be chosen for Band 2 provided that they come from the School of Mechanical, Manufacturing and Medical Engineering. Mechanical Engineering Specialised units allow students to undertake study in the areas of Medical Engineering, Infomechatronics, Engineering Management and general mechanical engineering, such as tribology, maintenance, manufacturing etc. Band 3 requires enrolment in a Mechanical Engineering Project (equivalent to 24 credit points).

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course structure

Full-time Course Structure

Band 1 Units

<table>
<thead>
<tr>
<th>Band 1 - Semester 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CEP201</td>
<td>Process Modelling</td>
</tr>
<tr>
<td>CEP291</td>
<td>Environmental Law and Assessment</td>
</tr>
<tr>
<td>CEP294</td>
<td>Engineering Contract Development and Administration</td>
</tr>
<tr>
<td>EEP101</td>
<td>Algorithms for Control and Engineering</td>
</tr>
<tr>
<td>EEP102</td>
<td>Unix and C for Engineers</td>
</tr>
<tr>
<td>EEP103</td>
<td>Computer Hardware and Interfacing</td>
</tr>
<tr>
<td>MEN101</td>
<td>Research Methodology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Band 1 - Semester 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CEP141</td>
<td>Studies in Environmental Engineering</td>
</tr>
<tr>
<td>CEP295</td>
<td>Civil Engineering Management in a Project Environment</td>
</tr>
<tr>
<td>EEP129</td>
<td>Image Processing and Computer Vision</td>
</tr>
<tr>
<td>MEN102</td>
<td>Advanced Mechanical Engineering Studies</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Band 1 - Block Mode#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MEN170</td>
<td>Systems Modelling and Simulation</td>
</tr>
<tr>
<td>MEN172</td>
<td>Cost Analysis and Asset Management</td>
</tr>
<tr>
<td>MEN280</td>
<td>Engineering Project Management</td>
</tr>
</tbody>
</table>

#Block mode classes are held in teaching periods, which run consecutively for 5 weeks at a time, instead of semesters. Classes are held on Tuesday and Thursday from 4pm to 8pm, and Saturday from 9am to 5pm in the first two weeks of a teaching period. Please check QUT Virtual or the School Administration Officer for details of teaching periods for the above block mode units.

<table>
<thead>
<tr>
<th>Band 2 Units</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3 units are to be chosen from the range of Band 2 units.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Band 2 - Block Mode#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MEN171</td>
<td>Advanced Manufacturing Technologies</td>
</tr>
<tr>
<td>MEN175</td>
<td>Energy and Environmental Management</td>
</tr>
<tr>
<td>MEN177</td>
<td>Total Quality Management</td>
</tr>
<tr>
<td>MEN241</td>
<td>Reliability and Maintenance Management</td>
</tr>
<tr>
<td>MEN272</td>
<td>Enterprise Resources Planning</td>
</tr>
<tr>
<td>MEN273</td>
<td>Engineering Knowledge Management</td>
</tr>
</tbody>
</table>

#For block mode classes see above.

<table>
<thead>
<tr>
<th>Band 2 - Semester 1,2or3</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MEN103</td>
<td>Mechanical Engineering Specialised Unit 1</td>
</tr>
<tr>
<td>MEN104</td>
<td>Mechanical Engineering Specialised Unit 2</td>
</tr>
<tr>
<td>MEN105</td>
<td>Mechanical Engineering Specialised Unit 3</td>
</tr>
</tbody>
</table>

Students must consult with the course coordinator before enrolling in MEN103, 104 or 105.

<table>
<thead>
<tr>
<th>Band 3 Project</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Project must normally be taken but may be</td>
<td></td>
</tr>
</tbody>
</table>
substituted with the approval of the course coordinator for two additional Band 2 units

<table>
<thead>
<tr>
<th>Band 3 - Semester 1 or 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEN190-1 Project</td>
</tr>
<tr>
<td>MEN190-2 Project</td>
</tr>
</tbody>
</table>

**Note**

MEN101 Research Methodology and MEN102 Advanced Mechanical Engineering Studies must normally be taken, but may be substituted with the approval of the course coordinator if the student has adequate prior knowledge in the relevant field.

**Potential Careers:**
Mechanical Engineer.
International Visiting Students (NA05)

Year offered: 2008
Admissions: Yes
CRICOS code: Holders of valid visas
International Fees (per semester): 2008: $2796 per unit
(subject to annual review)
International Entry: February, July and November
Campus: Gardens Point, Kelvin Grove, Carseldine and External
International Visiting Students (NA06)

Year offered: 2008
Admissions: Yes
CRICOS code: Holders of valid visas only
International Fees (per semester): 2008: $2796 per unit (subject to annual review)
International Entry: February July and November
Campus: Gardens Point, Kelvin Grove and Carseldine
Bachelor of Surveying (PS47)

Year offered: 2008
Admissions: No
CRICOS code: 016354J
Course duration (full-time): 4 years

Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $218 per credit point (subject to annual review)

Domestic fees (indicative): 2008: Full fee tuition $20,928; CSP $6,224

International Fees (per semester): 2008: $10,608 per semester (subject to annual review)

Domestic Entry: February
International Entry: February
QTAC code: 412532; Dfee: 412536

Past rank cut-off: 72. Admission to this course is based on prior study entry requirements in addition to a rank. Please refer to Additional Admission Information. Dfee places were not offered last year.

OP Guarantee: Yes
Total credit points: 384
Course coordinator: Dr John Hayes
Discipline coordinator: Mr Robert Webb
Campus: Gardens Point

Additional Admission Information

The PS47 Bachelor of Surveying course has been replaced by UD40 Bachelor of Urban Development (Spatial Science) from 2006 onwards. There will be no intake into the PS47 course in 2007 with the exception of QTAC applicants commencing their studies with at least 168 credit points of advanced standing (academic credit); i.e. those students who will be starting in the third year of the program.

If offered a place you are not required to lodge an academic credit form, as academic credit will be awarded by QUT before the census date of your first teaching period.

If offered a place you are not required to lodge an academic credit form, as academic credit will be awarded by QUT before the census date of your first teaching period. After being awarded this credit and if you wish to seek for additional academic credit, you are then required to lodge an Application for Academic Credit form for that additional credit by the due date and subject QUT rules.

Career Outcomes

Surveyors assess geographic and land information for implementing appropriate administration for the land, sea and related structures. All levels of government, private practice and multi-national companies, statutory authorities or semi-government agencies employ them. Graduates have the opportunity to travel as the degree is readily accepted overseas. After some years of experience they may become managers or specialise. Surveyors may also work in one of the related fields such as geographic information systems, remote sensing or photogrammetry.

Overview

The Bachelor of Surveying 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, physics, computing skills, environmental science as well as surveying in their first year. In the following years the areas covered are geodetic control surveying, topographic mapping, photogrammetry, mine surveying, hydrographic surveying, land development design and geographic information systems.

Professional Recognition

Australia: The Bachelor of Surveying degree meets the requirements for membership of The Spatial Science Institute (Incorporating the Institution of Surveyors, Australia, the Institution of Engineering and Mining Surveyors, Australia and the Mapping Sciences Institute, Australia).

Overseas: Surveying graduates are readily accepted internationally.

Minors

Subject to the approval of the course coordinator, students may be able to choose a minor area of study. A minor is a collection of four units from the one study area, that totals 48 credit points. Students may choose from the list of minors, available from the office of the Faculty of Built Environment and Engineering.

Special Course Requirements

Students are 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. Students must obtain at least 90 days of industrial experience/practice in a surveying/mapping environment, approved by the course coordinator.

Further Information

Phone +61 7 3864 2852, Fax +61 7 3864 1515, email: bee.enquiries@qut.com

Deferment

QUT’s deferment policy does not apply to this course.

Course structure

Year 4 - Semester 1
PSB614 Urban and Rural Design Principles
PSB633 Map Production: Principles and Practice
PSB644 Advanced Geodesy
  Project 1 (or an approved elective)

Year 4 - Semester 2
PSB615 Urban and Rural Design Practice
PSB621 Advanced Cadastral Surveying
PSB645 Surveying and Mapping Practice
  Project 2 (or an approved elective)
Students in this course must complete 90 days industrial experience before graduating.

Recommended Surveying Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSB645</td>
<td>Surveying and Mapping Practice</td>
</tr>
<tr>
<td>PSB644</td>
<td>Advanced Geodesy</td>
</tr>
<tr>
<td>PSB633</td>
<td>Map Production: Principles and Practice</td>
</tr>
<tr>
<td>PSB621</td>
<td>Advanced Cadastral Surveying</td>
</tr>
<tr>
<td>PSB614</td>
<td>Urban and Rural Design Principles</td>
</tr>
<tr>
<td>PSB615</td>
<td>Urban and Rural Design Practice</td>
</tr>
</tbody>
</table>

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Year 4 - Semester 1
PSB650  Project 1
PSB655  Remote Sensing
Year 4 - Semester 2
PSB651  Project 2
UDB282  Remote Sensing

Potential Careers:
Mapping Scientist/Photogrammetrist, Surveyor.
Graduate Diploma in Landscape Architecture (PS66)

Year offered: 2008
Admissions: Yes
CRICOS code: 003478D

Course duration (full-time): 1 year BBit Env (L'scape Arch) graduates; 2 years other graduates
Course duration (part-time): 2 years BBit Env (L'scape Arch) graduates; 4 years (other graduates)

Domestic fees (per credit point): Commonwealth Supported Place (subject to annual review)
Domestic fees (indicative): 2008: CSP $7,235
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)

Domestic Entry: This course is open to continuing BN31 Graduates only. NO NEW OFFERS WILL BE MADE AFTER FEBRUARY 2008.
International Entry: This course is open to continuing BN31 Graduates only. NO NEW OFFERS WILL BE MADE AFTER FEBRUARY 2008.

Total credit points: 192
Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Dr Kathi Holt-Damant (Course Leader)
Campus: Gardens Point

Entry Requirements

A bachelor degree or three-year diploma, or equivalent professional qualification with a minimum Grade Point Average of 4.5. Applicants entering this course from non-design qualifications require basic skills in design/perception theory, freehand and technical graphics.

In order to be considered for entry to either the Graduate Diploma or Masters courses, applicants must complete:
1. Application for Admission form
2. A personal statement in which the applicant demonstrates an understanding of the profession and the guiding belief systems of landscape architecture and shows the applicant's potential to 'fit' within this profession.
3. An Illustrated Autobiography - a concise self-expose which shows, in a combination of words and graphics, the applicant's life and interests. The objective is to give an insight into the applicant and demonstrate an aptitude for design as the core activity of the profession. This document is not a resume or curriculum vitae. It will be in A3 format and is not to exceed five pages. These documents are to be forwarded to the course coordinator.

Overview

Landscape architecture is concerned with the ordered design of open space at all scales: the appearance, atmosphere, and suitability of environment to assure its health and welfare and that of its inhabitants. Course covers landscape theory and design, professional values, environment theory, graphic and other communication, and landscape construction supported by project and field work. In the Graduate Diploma you complete a program similar to the first two years of the Masters program.

Professional recognition
This course is professionally recognised by the Australian Institute of Landscape Architects

International Student Entry
QUT advises that International Students may only enrol in full-times studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

SPECIAL NOTE
Any BN31 (L'scapeArch) graduate (from 1997-2007) can apply for the final offering (Sem 1 2008) of the Graduate Diploma in Landscape Architecture.

Full-Time Course Structure*

<table>
<thead>
<tr>
<th>Professional Level Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 2 - Semester 1</strong></td>
</tr>
<tr>
<td>(Entry for Bachelor of Built Environment - Landscape Architecture graduates)</td>
</tr>
<tr>
<td>PSP269 Advanced Construction and Practice 1</td>
</tr>
<tr>
<td>PSP271 Advanced Landscape Design 1</td>
</tr>
<tr>
<td>Elective*</td>
</tr>
<tr>
<td>*Student to consult course coordinator for appropriate unit choices.</td>
</tr>
</tbody>
</table>

| **Year 2 - Semester 2** |
| PSP272 Advanced Construction and Practice 2 |
| PSP273 Landscape Planning |
| PSP274 Advanced Landscape Design 2 |

Part-Time Course Structure*

<table>
<thead>
<tr>
<th>Foundation Level Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1 - Semester 1</strong></td>
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<tr>
<td>(Entry for graduates of 3-year degree or diploma other than the Bachelor of Built Environment - Landscape Architecture)</td>
</tr>
<tr>
<td>DLB130 Introducing Landscape Design</td>
</tr>
<tr>
<td>DLB310 People and Place</td>
</tr>
</tbody>
</table>

| **Year 1 - Semester 2** |
| DLB230 Environmental Design 2 |
| DEB201 Digital Communication |
| OR |
| Elective approved by course coordinator. (program to be agreed with Course Coordinator to suit existing qualifications) |

<p>| <strong>Year 2 - Semester 1</strong> |
| DLB310 People and Place |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>DLB330</td>
<td>People and Environment</td>
</tr>
<tr>
<td>DLB230</td>
<td>Environmental Design 2</td>
</tr>
<tr>
<td>DLB410</td>
<td>Creative Site Design 1</td>
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**Professional Level Studies**

<table>
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<td>PSP272</td>
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<td>PSP273</td>
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<tr>
<th>Year 4 - Semester 1</th>
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<tbody>
<tr>
<td>PSP271</td>
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<table>
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<tr>
<th>Year 4 - Semester 2</th>
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<tbody>
<tr>
<td>PSP274</td>
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</tbody>
</table>

**Potential Careers:**

Landscape Architect.
Master of Urban and Regional Planning (PS70)

Year offered: 2008
Admissions: No
CRICOS code: 020299K

Course duration (full-time): 1.5 years for Bachelor of Built Environment graduates; 2 years for other graduates
Course duration (part-time): 75% progression: 2 years for Bachelor of Built Environment graduates; 2.5 years for other graduates/50% progression: 2.5 years for Bachelor of Built Environment graduates; 3.5 years for other graduates

Domestic fees (per credit point): Commonwealth Supported Place (subject to annual review)
Domestic fees (indicative): 2008: CSP $7256
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)

Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.

Total credit points: 216
Course coordinator: Associate Professor Jay Yang (Please refer all course enquiries to Course Leader.)
Discipline coordinator: Dr Tan Yigitcanlar (Course Leader)
Campus: Gardens Point

Overview
Students develop the knowledge, skills and social awareness to become successful urban and regional planners. The course is structured around a core of planning practice and method. Contributions from theory and activity studies are integrated with this core at each stage and set within the broader socio-economic and political contexts. Flexible teaching methods include lectures, projects, workshops, seminars and field studies. In each of the last three years student projects have been awarded top planning Institute awards at State and National levels.

Entry Requirements
A bachelor degree or equivalent is required. Applicants entering this course from non-design qualifications gain basic skills in design/perception theory, and planning graphics. A two-module Summer unit is available for this purpose. Computer literacy skills are also provided for those requiring them.

Applicants without planning or related qualifications undertake a Foundation Course of six units within the course of 2 years or part time equivalent, including a Summer Semester These requirements may be reduced by academic credit based on previous studies. A limited number of special entry places are available in the Foundation Course for suitably experienced non-graduates. Special entry includes written and oral examinations and references.

Course Structure
The course offers a variety of structures, including full-time (100% and 75% progression rates) and part-time programs (50% progression rate). Normal entry to the course is in Semester 1 or Summer Semester, though Foundation Studies entrants may, in special circumstances, be admitted in Semester 2.

Professional recognition
This course is professionally accredited by the Planning Institute of Australia

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Full-Time Course Structure

Structure for non BBE graduates

Year 1 - Semester 1
DBP403 Design Communication
DBP406 Computer Applications in Planning

Note: DBP403 and DBP406 are introductory units to be undertaken in workshop mode in February.

DBP401 Urban Design and Site Analysis
DBP402 Planning Processes
DBP409 Urban Planning Practice
DBP410 Research Methods in Planning

Year 1 - Semester 2
DBP404 Economic and Social Foundations of Planning
DBP408 Planning Implementation and Law
DBP413 Regional Planning Practice
DBP414 Regional and Metropolitan Policy

Year 2 - Semester 1
DBP407 Environmental Planning and Management
DBP411 Community Planning
DBP412 Planning Theory and Ethics
DBP415 Professional Practice or Research Project

Year 2 - Semester 2
DBP501 Specialisation
DBP502 Professional Practice or Research Dissertation
DBP503 Masters Seminar

Structure for BBE graduates

Year 1 - Semester 1
DBP409 Urban Planning Practice
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBP410</td>
<td>Research Methods in Planning</td>
</tr>
<tr>
<td>DBP411</td>
<td>Community Planning</td>
</tr>
<tr>
<td>DBP412</td>
<td>Planning Theory and Ethics</td>
</tr>
</tbody>
</table>

### Year 1 - Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>DBP413</td>
<td>Regional Planning Practice</td>
</tr>
<tr>
<td>DBP414</td>
<td>Regional and Metropolitan Policy</td>
</tr>
<tr>
<td>DBP415</td>
<td>Professional Practice or Research Project</td>
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<tr>
<td>DBP503</td>
<td>Masters Seminar</td>
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</tbody>
</table>

### Year 2 - Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>DBP501</td>
<td>Specialisation</td>
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<td>DBP502</td>
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### Part-Time Course Structure - 50% Progression Rate

#### Structure for non BBE graduates

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>DBP403</td>
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**Note:** DBP403 and DBP406 are introductory units to be undertaken in workshop mode in February.

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</thead>
<tbody>
<tr>
<td>DBP401</td>
<td>Urban Design and Site Analysis</td>
</tr>
<tr>
<td>DBP402</td>
<td>Planning Processes</td>
</tr>
</tbody>
</table>

### Year 1 - Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>DBP404</td>
<td>Economic and Social Foundations of Planning</td>
</tr>
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<td>DBP408</td>
<td>Planning Implementation and Law</td>
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<tbody>
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<td>Professional Practice or Research Project</td>
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<td>Masters Seminar</td>
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### Year 3 - Semester 2

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<td>Environmental Planning and Management</td>
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#### Structure for BBE graduates

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### Course Structure - 75% Progression Rate

#### Structure for non BBE graduates

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**Note:** DBP403 and DBP406 are introductory units to be undertaken in workshop mode in February.

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### Notes:

- DBP403 and DBP406 are introductory units to be undertaken in workshop mode in February.
### Structure for BBE graduates

#### Year 1 - Semester 1
- DBP409  Urban Planning Practice
- DBP410  Research Methods in Planning
- DBP412  Planning Theory and Ethics

#### Year 1 - Semester 2
- DBP413  Regional Planning Practice
- DBP414  Regional and Metropolitan Policy
- DBP415  Professional Practice or Research Project

#### Year 2 - Semester 1
- DBP411  Community Planning
- DBP501  Specialisation

#### Year 2 - Semester 2
- DBP502  Professional Practice or Research Dissertation
- DBP503  Masters Seminar

### Potential Careers:
Urban and Regional Planner.
Master of Landscape Architecture (PS71)

Year offered: 2008
Admissions: No
CRICOS code: 020301K

Course duration (full-time): 1 year plus 1 year part-time
Built Environment (Landscape Architecture) graduates or equivalent; 2 years plus 1 year part-time (Other graduates)
Course duration (part-time): 3 years Built Environment (Landscape Architecture); 5 years (Other graduates)

Domestic fees (per credit point): Commonwealth Supported Place (subject to annual review)
Domestic fees (indicative): 2008: CSP $7031

International Fees (per semester): 2008: $9,984 per semester (subject to annual review)

Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.

Total credit points: 228 (excluding any Masters qualifying units)

Course coordinator: Associate Professor Jay Yang
Discipline coordinator: Dr Kathi Holt-Damant (Course Leader)
Campus: Gardens Point

Entry Requirements
A bachelor degree, or equivalent professional qualification, with a minimum grade point average of 5.
Applicants entering this course from non-design qualifications require basic skills in design/perception theory, freehand and technical graphics.

In order to be considered for entry to either the Graduate Diploma or Masters courses, applicants must complete:

* Application for Admission form as well as the following which should be forwarded direct to the course coordinator.
* Position Statement - a personal statement (1 x A4 typed page) in which the applicant demonstrates an understanding of the profession and the guiding belief systems of landscape architecture and shows the applicant's potential to 'fit' within this profession.
* Illustrated Autobiography - a concise self-expose which shows, in a combination of words and graphics, the applicant's life and interests. The objective is to give an insight into the person making the application and to demonstrate an aptitude for design as the core activity of the profession. This document is not a resume or curriculum vitae, nor is it a folio of previous work experience. It will be in A3 format and is not to exceed five pages.

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Overview
Landscape architecture is concerned with the ordered design of open space at all scales: the appearance, atmosphere, and suitability of environment to assure its health and welfare and that of its inhabitants. Your course covers landscape theory and design, professional values, environment theory, graphic and other communication, and landscape construction supported by project and field work.

Professional Recognition
Professional accreditation for the course has been granted by the Australian Institute of Landscape Architects.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Course Structure*

Professional Level Studies

Year 2 - Semester 1
PSP269 Advanced Construction and Practice 1
PSP271 Advanced Landscape Design 1

Elective*
*Student to consult course coordinator for appropriate unit choices.

Year 2 - Semester 2
PSP272 Advanced Construction and Practice 2
PSP273 Landscape Planning
PSP274 Advanced Landscape Design 2

Masters Level Studies

Year 3 - Semester 1
PSN211 Research Project 1
PSN213 Specialisation
OR
PSN214 Elective

Year 3 - Semester 2
PSN212 Research Project 2
PSN213 Specialisation
OR
PSN214 Elective

(PSN213 and PSN214 may be taken in either semester 1 or 2)

* Please Note:
This course structure is under review and subject to University approval.

Part-Time Course Structure* [NOT AVAILABLE TO INTERNATIONAL STUDENTS]

Foundation Level Studies

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### Year 1 - Semester 1

(Entry for graduates of 3-year degree or diploma other than the Bachelor of Built Environment - Landscape Architecture)

- **DLB130** Introducing Landscape Design
- **DLB310** People and Place

### Year 1 - Semester 2

- **DLB230** Environmental Design 2
- **DEB201** Digital Communication

Or

Elective approved by course coordinator.

(program to be agreed with Course Coordinator to suit existing qualifications)

### NOTE:

The following Year 2 program is for students who commenced in 2006. Year 2 will change the following year for students who commenced in 2007 as new units are implemented.

### Year 2 - Semester 1

- **DLB310** People and Place
- **DLB330** People and Environment

### Year 2 - Semester 2

- **DLB230** Environmental Design 2
- **DLB410** Creative Site Design 1

### Professional Level Studies

### Year 3 - Semester 1

(Entry for Bachelor of Built Environment - Landscape Architecture graduates)

- **PSP269** Advanced Construction and Practice 1
- Elective*

* Student to consult course coordinator for appropriate unit choices.

### Year 3 - Semester 2

- **PSP272** Advanced Construction and Practice 2
- **PSP273** Landscape Planning

### Year 4 - Semester 1

- **PSP271** Advanced Landscape Design 1

### Year 4 - Semester 2

- **PSP274** Advanced Landscape Design 2

### Masters Level Studies

### Year 5 - Semester 1

- **PSN211** Research Project 1
- **PSN213** Specialisation

Or

- **PSN214** Elective

### Year 5 - Semester 2

- **PSN212** Research Project 2
- **PSN213** Specialisation

Or

- **PSN214** Elective

(PSN213 and PSN214 may be taken in either semester 1 or 2.)

* Please Note:

This course structure is under review and subject to University approval.

### Potential Careers:

Landscape Architect.
Graduate Diploma in Urban and Regional Planning (PS72)

Year offered: 2008
Admissions: Yes
CRICOS code: 003477E

Course duration (full-time): 1 year for Bachelor of Built Environment graduates; 1.5 years for other graduates
Course duration (part-time): 75% progression: 1.5 years for Bachelor of Built Environment graduates; 2 years for other graduates; 50% progression: 2 years for Bachelor of Built Environment graduates; 2.5 years for other graduates

Domestic fees (per credit point): Commonwealth Supported Place (subject to annual review)
Domestic fees (indicative): 2008: CSP $7,252
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)

Domestic Entry: This course is open to continuing BN31 Graduates only. NO NEW OFFERS WILL BE MADE AFTER FEBRUARY 2008.
International Entry: This course is open to continuing BN31 Graduates only. NO NEW OFFERS WILL BE MADE AFTER FEBRUARY 2008.

Total credit points: 168

Course coordinator: Associate Professor Jay Yang
Discipline coordinator: Dr Tan Yigitcanlar (Course Leader)
Campus: Gardens Point

Entry Requirements
A bachelor degree or equivalent is required. Applicants entering this course from non-design qualifications require basic skills in design/perception theory, planning graphics. A two-module full-fee paying Summer unit is available for this purpose. Computer literacy is also required.

Applicants without planning or related qualifications undertake a Foundation Course of up to six units within the Course of 1.5 years or part-time equivalent including an introductory Summer Semester. These requirements may be reduced by academic credit based on previous studies. A limited number of special entry places are available in the Foundation Course for suitably experienced non-graduates. Special entry includes written and oral examinations and references.

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Overview
Students develop the knowledge, skills and social awareness to become successful urban and regional planners. The course is structured around a core of planning practice. Contributions from theory, method and activity studies are integrated with this core at each stage and set within the broader socio-economic and political contexts. Flexible teaching methods include lectures, as well as projects, workshops, seminars and field studies.

Professional Recognition
This course is professionally accredited by the Planning Institute of Australia.

Course Structure
The course offers a variety of structures, including full-time (100% and 75% progression rate) and part-time programs (50% progression rate). Normal Entry to the Course is in Semester 1 or Summer Semester, though Foundation Studies entrants may, in special circumstances, be admitted in Semester 2.

SPECIAL NOTE
Any BN31 (Urb&RegPlan) graduate (from 1997-2007) can apply for the final offering (Sem 1 2008) of the Graduate Diploma in Urban and Regional Planning.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Full-Time Course Structure

<table>
<thead>
<tr>
<th>Year 1, Semester 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBP403</td>
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<tr>
<td>DBP406</td>
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<tr>
<td>DBP401</td>
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<td>DBP402</td>
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<tr>
<td>DBP409</td>
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<td>DBP410</td>
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<table>
<thead>
<tr>
<th>Year 1, Semester 2</th>
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</thead>
<tbody>
<tr>
<td>DBP404</td>
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<tr>
<td>DBP408</td>
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<tr>
<td>DBP413</td>
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<tr>
<td>DBP414</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Year 2, Semester 1</th>
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</thead>
<tbody>
<tr>
<td>DBP407</td>
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<tr>
<td>DBP411</td>
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<tr>
<td>DBP412</td>
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<tr>
<td>DBP415</td>
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Structure for BBE graduates

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<thead>
<tr>
<th>Year 1 - Semester 1</th>
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<tbody>
<tr>
<td>DBP409</td>
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<tr>
<td>DBP410</td>
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<tr>
<td>DBP411</td>
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<tr>
<td>DBP412</td>
</tr>
</tbody>
</table>
### Year 1 - Semester 2
- DBP413 Regional Planning Practice
- DBP414 Regional and Metropolitan Policy
- DBP415 Professional Practice or Research Project

### Part-time Course Structure

#### Structure for non BBE graduates

**Year 1, Semester 1**
- DBP403 Design Communication
- DBP406 Computer Applications in Planning
  
  Note: DBP403 and DBP406 are introductory units to be undertaken in workshop mode in February.
- DBP401 Urban Design and Site Analysis
- DBP402 Planning Processes

**Year 1, Semester 2**
- DBP404 Economic and Social Foundations of Planning
- DBP408 Planning Implementation and Law

**Year 2, Semester 1**
- DBP409 Urban Planning Practice
- DBP410 Research Methods in Planning

**Year 2, Semester 2**
- DBP413 Regional Planning Practice
- DBP414 Regional and Metropolitan Policy

**Year 3, Semester 1**
- DBP407 Environmental Planning and Management
- DBP411 Community Planning
- DBP412 Planning Theory and Ethics

**Year 3, Semester 2**
- DBP415 Professional Practice or Research Project

#### Structure for BBE graduates

**Year 1, Semester 1**
- DBP409 Urban Planning Practice
- DBP410 Research Methods in Planning
- DBP412 Planning Theory and Ethics

**Year 1, Semester 2**
- DBP413 Regional Planning Practice
- DBP414 Regional and Metropolitan Policy

**Year 2, Semester 1**
- DBP411 Community Planning
- DBP412 Planning Theory and Ethics

**Year 1, Semester 2**
- DBP413 Regional Planning Practice
- DBP414 Regional and Metropolitan Policy
- DBP415 Professional Practice or Research Project

#### Potential Careers:

Urban and Regional Planner.
Graduate Diploma in Geomatics (PS74)

Year offered: 2008
Admissions: No
CRICOS code: 036437G
Course duration (full-time): 2 semesters
Course duration (part-time): 4 semesters
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960
International Fees (per semester): No new admissions (subject to annual review)
Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
Total credit points: 96
Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Dr Tan Yigitcanlar (Course Leader)
Campus: Gardens Point

Entry Requirements
A recognised tertiary degree requiring at least four years full time study or its equivalent;
OR a qualification from another tertiary institution considered by the Head of School of Design and Built Environment to be at least equivalent to the degree of Bachelor of Surveying of this University. In addition, graduates should have at least one year's field experience (or its equivalent) following graduation in the practice of surveying. Entry will also be available on the basis of other academic qualifications supported by a minimum of 2 years work experience of relevant depth and breadth on application to the Head of School.

Please note
The School reserves the right to offer this course according to enrolment quotas and staff availability.

Professional Recognition
The Diploma is recognised professionally by the Mapping Sciences Institute, Australia (now the Spatial Sciences Institute).

Overview
The content includes subjects in geomatics, geographic information systems (GIS) and spatial sciences at undergraduate level, postgraduate level, or project based. Individual programs can therefore be advised to suit the needs of individual students.

International Student Entry
QUT advises that international students may only enrol in full-time studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Full-Time Course Structure - February Entry

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
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</thead>
<tbody>
<tr>
<td>PSB655  Remote Sensing</td>
</tr>
<tr>
<td>UDB281  Geographic Information Systems</td>
</tr>
<tr>
<td>2 Electives</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSB654  Topics in Spatial Information Science</td>
</tr>
<tr>
<td>PSN213  Specialisation</td>
</tr>
<tr>
<td>2 Electives</td>
</tr>
</tbody>
</table>

Notes
Electives are subject to availability and confirmation by consultation with Course Coordinator.

Full time students enrol in 48 credit points each semester: 2 core units and 2 elective units.
Please consult with the Course Coordinator before finalising your enrolment.
Graduate Certificate in Landscape Techniques (PS75)

Year offered: 2008
Admissions: No
CRICOS code: 037545F
Course duration (full-time): 1 semester
Course duration (part-time): 2 semesters
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960
International Fees (per semester): No new admissions (subject to annual review)
Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
Total credit points: 48
Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Dr Kathi Holt-Damant (Course Leader)
Campus: Gardens Point

Entry Requirements
A relevant two year diploma and industry experience or approved equivalent; or a three year diploma or bachelor's degree. Applicants from non-design qualifications require basic skills in design/perception theory, freehand and technical graphics. Computer literacy is also required.

Overview
This course covers landscape theory and design, professional values, environmental theory, graphic and other communication, and landscape construction supported by project and fieldwork.

Please note
The School reserves the right to offer this course according to enrolment quotas and staff availability.

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Full-Time Course Structure*

Year 1 - Semester 1

- DLB130 Introducing Landscape Design
- DLB310 People and Place
- DLB330 People and Environment
- PSB434 Landscape Construction A (L'scape Only)

* Please Note:
Course structure under review and subject to University approval.

Part-Time Course Structure*

Year 1 - Semester 1

- DLB130 Introducing Landscape Design
- PSB434 Landscape Construction A (L'scape Only)

Year 1 - Semester 2

- PSB444 Landscape Construction B (L'scape Only)
- DEB201 Digital Communication
  OR
  Elective approved by course coordinator.
  (program to be agreed with Course Coordinator to suit existing qualifications)

*Please Note:
This course structure is under review and subject to University approval

Potential Careers:
Landscape Architect.
Graduate Diploma in Geographic Information Systems (PS78)

Year offered: 2008
Admissions: No
CRICOS code: 040337K
Course duration (full-time): 1 year
Course duration (part-time): 2 years
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)
Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
Total credit points: 96
Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Dr Tan Yigitcanlar (Course Leader)
Campus: Gardens Point

Overview
The course is designed to meet the geographic information systems (GIS) specific, academic and practical skill needs of the range of professionals now operating within the spatial information industry. The content includes units in GIS, Geomatics and Spatial Sciences at the postgraduate level and the latter year undergraduate level, units that are project based, and a range of postgraduate, discipline specific units. An individual program can therefore be advised to suit the needs of a student. The course is being evaluated by industry organisations for professional recognition.

Please note:
The School reserves the right to offer this course according to enrolment quotas and staff availability.

Entry Requirements
Applicants must hold a relevant bachelor degree or diploma from an approved tertiary institution; or have qualifications deemed equivalent to the above by the Head of School of Design and Built Environment; or other academic qualifications supported by a minimum of two years work experience of relevant depth and breadth on application to the Head of School, Design and Built Environment.

International Student Entry
QUT advises that International Students are not permitted to enrol part-time.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Potential Careers:
Geologist, Mapping Scientist/Photogrammetrist, Surveyor.

Full Time Course structure

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
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<tr>
<td>PSB655 Remote Sensing</td>
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<tr>
<td>UDB281 Geographic Information Systems</td>
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<tr>
<td>Two Electives*</td>
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<tbody>
<tr>
<td>PSB654 Topics in Spatial Information Science</td>
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<tr>
<td>PSN213 Specialisation</td>
</tr>
<tr>
<td>Two Electives*</td>
</tr>
</tbody>
</table>

Notes:
* Electives are subject to availability and confirmation by consultation with Course Coordinator.
Please consult with the Course Coordinator before finalising your enrolment.
Full-time students enrol in 48 credit point each semester: 2 core units and 2 elective units.
Graduate Certificate in Planning Studies (PS82)

Year offered: 2008
Admissions: No
CRICOS code: 040336M
Course duration (full-time): 1 semester
Course duration (part-time): 2 semesters
Domestic fees (per credit point): 2008: $135 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $12,960
International Fees (per semester): 2008: $9,984 per semester (subject to annual review)
Domestic Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
International Entry: This course is open to continuing students only. NO NEW OFFERS WILL BE MADE AFTER 2007.
Total credit points: 48
Course coordinator: Associate Professor Jay Yang
(Please refer all course enquiries to Course Leader.)
Discipline coordinator: Dr Tan Yigitcanlar (Course Leader)
Campus: Gardens Point

Entry Requirements
To be eligible for admission, an applicant must have:
- a recognised tertiary degree in any discipline requiring at least three years' full time study or its equivalent, or
- other documented qualifications and experience considered to be equivalent by the Head of School of Urban Development. Applicants may be required to attend an interview, or sit an examination, as part of the selection process.

Overview
The Planning Certificate is intended to provide an introduction to planning method and practice for people engaged in planning activities in government and the community, as well as being a convenient refresher course for professional planners in the latest developments in community planning theory and practice.

Students wishing to use the Graduate Certificate as a refresher or introductory course, may select any four units offered in the Graduate Diploma in Urban and Regional Planning. Full-time is one semester (48cp); part-time is 2 semesters (48cp). Please see course structure for a recommended program.

Course Structure
An overview of current planning methods is presented in Planning Processes and applied in Urban Analysis and Design and Planning Implementation. These method and practice units are accompanied by opportunity for focused study within the Elective unit, chosen in discussion with the course coordinator.

Professional Recognition
This course is registered with the Planning Institute of Australia (formerly RAPI) as a recognised Continuing Professional Development Course rated at ten credit points.

International Student Entry
QUT advises that International Students may only enrol in full-time studies.

Further Information
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

Full Time Course structure
Note:
Students may choose the Community Planning focus (units listed below) or any four units from the Graduate Diploma in Urban and Regional Planning

Semester 1
- DBP401 Urban Design and Site Analysis
- DBP402 Planning Processes
- DBP410 Research Methods in Planning
- DBP411 Community Planning

Part Time Course structure
Note:
Students may choose the Community Planning focus (units listed below) or any four units from the Graduate Diploma in Urban and Regional Planning

Semester 1
- DBP402 Planning Processes
- DBP411 Community Planning

Semester 2
- DBP404 Economic and Social Foundations of Planning
- DBP414 Regional and Metropolitan Policy

Mid-Year Entry Course structure (Full Time)
Note:
Students may choose the Community Planning focus (units listed below) or any four units from the Graduate Diploma in Urban and Regional Planning.

Semester 2
- DBP404 Economic and Social Foundations of Planning
- DBP408 Planning Implementation and Law
- DBP414 Regional and Metropolitan Policy
- DBP503 Masters Seminar
  OR
  DBP501 Specialisation

Mid-Year Entry Course structure (Part Time)
Note:
Students may choose the Community Planning focus (units listed below) or any four units from the Graduate Diploma in Urban and Regional Planning.

**Semester 2**
- DBP404 Economic and Social Foundations of Planning
- DBP414 Regional and Metropolitan Policy

**Semester 1**
- DBP402 Planning Processes
- DBP411 Community Planning

**Potential Careers:**
Urban and Regional Planner, Urban Designer.
Bachelor of Urban Development (Construction Management) (UD40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056387B
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,728
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412312
Past rank cut-off: 74
Past OP cut-off: 13
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths A, B or C (4, SA)
Preparatory studies: MATHS: QUT unit Preparatory Mathematics as a visiting student or QUT Continuing Professional Education course Mathematics Bridging. ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr John Hayes
Discipline coordinator: Mr Paul Den Ronden
Campus: Gardens Point

IMPORTANT: SPECIAL NOTE
In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Additional Admission Information
Applicants who are offered a place and eligible to receive 264 credit points (or more) of advanced standing will be admitted to CN51 Bachelor of Applied Science (Construction Management).

Career Outcomes
Graduates employed in the construction process are involved in the coordinating 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.

Overview
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 environment. It educates students to become effective construction managers with comprehensive technological knowledge, management principles and communication skills.

Special Course Requirements
All students are required to obtain a minimum of 100 days of approved industrial experience.

Professional Recognition
Recognition is being sought from the Australian Institute of Building and the Australian Institute of Building Surveyors.

Minors
For accreditation purposes you are required to undertake specified minors which will include employment practice.

Further Information
School of Urban Development - Phone +61 7 3864 2852, Fax +61 7 3864 1515, email: bee.enquiries@qut.com

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Domestic student tuition fee (Dfee) places
Undergraduate domestic full fee places (Dfee) are available in this course.

Find out more on Dfee.

Course structure

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BEB100</td>
<td>Introducing Professional Learning</td>
<td></td>
</tr>
<tr>
<td>UDB101</td>
<td>Stewardship of Land</td>
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<tr>
<td>UDB110</td>
<td>Residential Construction and Engineering</td>
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<tr>
<td>UDB111</td>
<td>Engineering Construction Materials</td>
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<thead>
<tr>
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<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BEB200</td>
<td>Introducing Sustainability</td>
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<tr>
<td>UDB104</td>
<td>Urban Development Economics</td>
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<tr>
<td>UDB112</td>
<td>Professional Studies 1</td>
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<td>UDB113</td>
<td>Measurement 1</td>
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<table>
<thead>
<tr>
<th>Year 2 - Semester 1</th>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>UDB210</td>
<td>Commercial Construction and Engineering</td>
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<tr>
<td>UDB211</td>
<td>Introductory Structural Engineering</td>
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<tr>
<td>Course structure - mid year entry</td>
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**Year 1 - Semester 2**

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<th>Course</th>
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<tbody>
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<td>BEB200</td>
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<td>UDB102</td>
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<tr>
<td>UDB104</td>
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<tr>
<td>UDB202</td>
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**Year 2 - Semester 1**

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<td>BEB100</td>
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<td>UDB110</td>
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<td>UDB111</td>
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<tr>
<td>UDB211</td>
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**Year 2 - Semester 2**

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<th>Course</th>
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<tbody>
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<tr>
<td>UDB113</td>
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<tr>
<td>UDB215</td>
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**Year 3 - Semester 1**

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<th>Course</th>
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<td>UDB210</td>
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<td>UDB212</td>
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<td>UDB213</td>
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<td>UDB310</td>
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**Year 3 - Semester 2**

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<th>Course</th>
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<tbody>
<tr>
<td>UDB214</td>
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<td>UDB314</td>
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**Year 4 - Semester 1**

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<th>Course</th>
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<tbody>
<tr>
<td>UDB101</td>
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<td>UDB301</td>
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**Year 4 - Semester 2**

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<th>Course</th>
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<tbody>
<tr>
<td>UDB302</td>
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**Year 5 - Semester 1**

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<th>Course</th>
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<tbody>
<tr>
<td>UDB312</td>
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<td>UDB313</td>
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</table>

**Potential Careers:**

Construction Manager, Contract Administrator, Estimator, Project Manager, Urban and Regional Planner, Urban Designer.
Bachelor of Urban Development (Property Economics) (UD40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056387B
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,728
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412322
Past rank cut-off: 74
Past OP cut-off: 13
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths A, B or C (4, SA)
Preparatory studies: MATHS: QUT unit Preparatory Mathematics as a visiting student or QUT Continuing Professional Education course Mathematics Bridging. ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr John Hayes
 Discipline coordinator: Ms Connie Susilawati
Campus: Gardens Point

IMPORTANT: SPECIAL NOTE
In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Additional Admissions Information
Applicants who are offered a place and eligible to receive 168 credit points (or more) of advanced standing will be admitted to CN54 Bachelor of Property Economics.

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.

Overview
This course is concerned with all aspects of property - investment, asset management, development, valuation and research - with a focus on finance and on the commercial property market sector.

Special Course Requirements
You are required to obtain a minimum of 30 days approved professional work experience as part of the unit UDB343 Professional Project.

Professional Recognition
Both the 3 and 4 year degrees have professional recognition from the Australian Property Institute and the Valuers' Registration Board of Queensland. Professional accreditation for the 4 year degree is currently being sought from the Royal Institution of Chartered Surveyors and the Singapore Institute of Surveyors and Valuers.

Majors/Minors
In your final two years you will have the opportunity to undertake a major (8 units) or 2 minors (4 units) from other areas of interest.

Further Information
School of Urban Development - Phone +61 7 3864 2852, Fax +61 7 3864 1515, email: bee.enquiries@qut.com

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Course structure

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<tr>
<th>Year 1 - Semester 1</th>
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<tbody>
<tr>
<td>BEB100 Introducing Professional Learning</td>
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<tr>
<td>UDB101 Stewardship of Land</td>
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<tr>
<td>UDB110 Residential Construction and Engineering</td>
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<tr>
<td>UDB140 Property Valuation 1</td>
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<thead>
<tr>
<th>Year 1 - Semester 2</th>
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<tbody>
<tr>
<td>BEB200 Introducing Sustainability</td>
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<tr>
<td>UDB102 Applied Law</td>
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<tr>
<td>UDB104 Urban Development Economics</td>
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<td>UDB141 Building Studies</td>
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<tbody>
<tr>
<td>UDB240 Planning Theory and Processes</td>
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<tr>
<td>UDB241 Property Law 1</td>
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<tr>
<td>UDB242 Property Valuation 2</td>
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<tr>
<td>UDB243 Property Economics</td>
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<td>UDB245 Urban Land Studies</td>
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<tr>
<td>UDB246</td>
<td>Property Feasibility Studies</td>
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<td>UDB247</td>
<td>Property Valuation 3</td>
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<th>Unit Title</th>
<th>Year &amp; Semester</th>
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<td>UDB301</td>
<td>Research Methods</td>
<td>Year 3 - Semester 2</td>
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<tr>
<td>UDB341</td>
<td>Property Finance</td>
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<th>Year &amp; Semester</th>
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<tr>
<td>UDB302</td>
<td>Development Process</td>
<td>Year 4 - Semester 1</td>
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<tr>
<td>UDB344</td>
<td>Property and Asset Management</td>
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<th>Unit Title</th>
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<td>UDB340</td>
<td>Agency Practice and Marketing</td>
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<tr>
<td>UDB342</td>
<td>Real Estate Accounting and Taxation</td>
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<th>Unit Code</th>
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<tbody>
<tr>
<td>BEB701</td>
<td>Work Integrated Learning 1</td>
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<tr>
<td>UDB202</td>
<td>Business Skills</td>
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<td>Second Major/Minor unit</td>
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<td>Second Major/Minor unit</td>
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</table>

**Potential Careers:**
Project Developer, Project Manager, Property Development, Property Economist, Property Management, Real Estate.
Bachelor of Urban Development (Quantity Surveying) (UD40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056387B
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,728
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February and July
QTAC code: 412332
Past rank cut-off: 76
Past OP cut-off: 12
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths A, B or C (4, SA)
Preparatory studies: MATHS: QUT unit Preparatory Mathematics as a visiting student or QUT Continuing Professional Education course Mathematics Bridging. ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr John Hayes
Discipline coordinator: Mr Jason Gray
Campus: Gardens Point

IMPORTANT: SPECIAL NOTE
In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Additional Admission Information
Applicants who are offered a place and eligible to receive 264 credit points (or more) of advanced standing will be admitted to CN53 Bachelor of Applied Science (Quantity Surveying).

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.

Overview
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 application, measurement of construction, and legal issues.

Special Course 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.

Professional Recognition
Accreditation with Australian Institute of Quantity Surveyors and the Royal Institution of Chartered Surveyors (honours version only) is currently being sought.

Minors
You will have the opportunity to undertake a minor (4 Units from one discipline area) which can be used to extend your construction knowledge into more advanced and specialised construction issues. Alternately, the minor can be used to broaden students' education by undertaking units from other faculties within the university subject to accreditation requirements.

Further Information
School of Urban Development - Phone +61 7 3864 2852, Fax +61 7 3864 1515, email: bee.enquiries@qut.com

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Domestic student tuition fee (Dfee) places
Undergraduate domestic full fee places (Dfee) are available in this course.

Find out more on Dfee.

Course structure

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
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<tbody>
<tr>
<td>BEB100 Introducting Professional Learning</td>
</tr>
<tr>
<td>UDB101 Stewardship of Land</td>
</tr>
<tr>
<td>UDB110 Residential Construction and Engineering</td>
</tr>
<tr>
<td>UDB111 Engineering Construction Materials</td>
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<table>
<thead>
<tr>
<th>Year 1 - Semester 2</th>
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</thead>
<tbody>
<tr>
<td>BEB200 Introducting Sustainability</td>
</tr>
<tr>
<td>UDB104 Urban Development Economics</td>
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<tr>
<td>UDB112 Professional Studies 1</td>
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<tr>
<td>UDB113 Measurement 1</td>
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<th>Year 2 - Semester 1</th>
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<td>UDB210 Commercial Construction and Engineering</td>
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<tr>
<td>UDB212 Measurement 2</td>
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<td>Year 1 - Semester 2</td>
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<tr>
<td>BEB200</td>
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<tr>
<td>UDB102</td>
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<tr>
<td>UDB104</td>
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<td>UDB202</td>
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<tr>
<td>BEB100</td>
<td>Introducing Professional Learning</td>
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<tr>
<td>UDB101</td>
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<td>UDB110</td>
<td>Residential Construction and Engineering</td>
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<td>UDB112</td>
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<td>UDB113</td>
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<tr>
<td>UDB215</td>
<td>Building Services Engineering</td>
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<th>Course</th>
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<tbody>
<tr>
<td>UDB210</td>
<td>Commercial Construction and Engineering</td>
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<tr>
<td>UDB212</td>
<td>Measurement 2</td>
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<tr>
<td>UDB216</td>
<td>The Environment and the Quantity Surveyor</td>
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<tr>
<td>UDB310</td>
<td>Highrise Construction and Engineering</td>
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<th>Course</th>
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<tbody>
<tr>
<td>UDB314</td>
<td>Statutory Construction Law</td>
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<tr>
<td>UDB316</td>
<td>Cost Planning and Control</td>
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<th>Year 4 - Semester 1</th>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>BEB701</td>
<td>Work Integrated Learning 1</td>
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<tr>
<td>UDB301</td>
<td>Research Methods</td>
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<tr>
<td>UDB315</td>
<td>Measurement 3</td>
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<th>Year 4 - Semester 2</th>
<th>Course</th>
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<tr>
<td>BEB801</td>
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<tr>
<td>UDB302</td>
<td>Development Process</td>
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<tr>
<th>Year 5 - Semester 1</th>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>UDB312</td>
<td>Contract Administration</td>
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</tbody>
</table>

**Potential Careers:**
Estimator, Manager, Quantity Surveyor.
Bachelor of Urban Development (Spatial Science) (UD40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056387B
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,728
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412532
Past rank cut-off: 74
Past OP cut-off: 13
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: MATHS: QUT unit Preparatory Mathematics as a visiting student or QUT Continuing Professional Education course Mathematics Bridging. ENGLISH: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr John Hayes
Discipline coordinator: Mr Robert Webb
Campus: Gardens Point

IMPORTANT: SPECIAL NOTE

In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Additional Admissions Information

Applicants who are offered a place and eligible to receive 264 credit points (or more) of advanced standing will be admitted to PS47 Bachelor of Surveying.

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 employ them. 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).

Overview

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, 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.

Professional Recognition

The course is recognised by the Spatial Science Institute and has preliminary recognition from the Queensland Surveyors Board; full accreditation is currently being sought.

Special Course 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.

Minors

For professional recognition you will undertake two minors (a minor is four units or 48 credit points in the same discipline) the first is a Science minor which includes Maths and the second an Applications minor which consists of a Work Place Integrated Learning unit, a project unit and two specialised spatial science units.

Further Information

School of Urban Development - Phone +61 7 3864 2852, Fax +61 7 3864 1515, email: bee.enquiries@qut.com

Deferment

QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

Domestic student tuition fee (Dfee) places

Undergraduate domestic full fee places (Dfee) are available in this course.

Find out more on Dfee.

Course structure

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
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<tbody>
<tr>
<td>BEB100 Introducing Professional Learning</td>
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<tr>
<td>MAB100 Mathematical Sciences 1A</td>
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<tr>
<td>UDB101 Stewardship of Land</td>
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<tr>
<td>UDB181 Geospatial Positioning and GPS</td>
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<td>Year 1 - Semester 2</td>
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<tr>
<td>BEB200  Introducing Sustainability</td>
</tr>
<tr>
<td>MAB101  Statistical Data Analysis 1</td>
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<td>UDB104  Urban Development Economics</td>
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<td>UDB182  Surveying</td>
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<td>PCB172  Physics for Surveyors</td>
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<tr>
<td>UDB281  Geographic Information Systems</td>
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<tr>
<td>UDB283  Surveying Computations</td>
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<td>UDB285  Cadastral Surveying</td>
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<tr>
<td>MAB730  Surveying Mathematics 2</td>
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<tr>
<td>UDB102  Applied Law</td>
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<td>UDB282  Remote Sensing</td>
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<td>UDB284  Engineering Surveying</td>
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<tbody>
<tr>
<td>UDB381  Geospatial Mapping</td>
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<tr>
<td>UDB383  Control Surveying and Analysis</td>
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<tr>
<td>UDB385  Cadastral and Land Management</td>
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<tr>
<td>UDB387  Spatial and Land Information Management</td>
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<th>Year 3 - Semester 2</th>
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<tr>
<td>UDB302  Development Process</td>
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<td>UDB382  Photogrammetric Mapping</td>
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<td>UDB384  Geodesy</td>
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<td>UDB388  Spatial Analysis Practice</td>
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<tr>
<td>BEB701  Work Integrated Learning 1</td>
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<td>UDB301  Research Methods</td>
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<td>UDB483  Global Positioning Principles and Practice</td>
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<td>UDB485  Property Development Practice</td>
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<th>Year 4 - Semester 2</th>
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<tr>
<td>BEB801  Project 1</td>
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<td>UDB202  Business Skills</td>
</tr>
<tr>
<td>UDB484  Topographic, Hydrographic and Mining Surveying</td>
</tr>
<tr>
<td>UDB486  Cadastral Practice</td>
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**Potential Careers:**
Geoscientist, Mapping Scientist/Photogrammetrist, Surveyor.
Bachelor of Urban Development (Urban and Regional Planning) (UD40)

Year offered: 2008
Admissions: Yes
CRICOS code: 056387B
Course duration (full-time): 4 years
Domestic fees (per credit point): Commonwealth Supported Place; Full fee tuition 2008: $166 per credit point (subject to annual review)
Domestic fees (indicative): 2008: Full fee tuition $15,936; CSP $6,728
International Fees (per semester): 2008: $10,608 per semester (subject to annual review)
Domestic Entry: February
International Entry: February
QTAC code: 412352
Past rank cut-off: 74
Past OP cut-off: 13
OP Guarantee: Yes
Assumed knowledge: English (4, SA)
Preparatory studies: Successful completion of a year of full-time vocational or tertiary study. For further information contact 07 3138 2000 or email study@qut.com
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Dr John Hayes
Discipline coordinator: Mr Paul Donehue
Campus: Gardens Point

IMPORTANT: SPECIAL NOTE
In 2008, only the first 3 years will be available. Year 4 will be introduced in 2009. Course units may be subject to change.

Career Outcomes
Urban and Regional Planners develop plans and policies for the use of land and resources. They aim to fulfill the social, cultural economic and environmental needs of the community. There are numerous employment opportunities can found in state and local government departments, with private sector planning consultants and land development enterprises. Graduates can build careers in urban design, community health and welfare, housing, transport, and strategic land-use planning, and land and resource development.

Overview
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.

Professional Recognition
This course has received accreditation from the Planning Institute of Australia.

You will be able to select two four unit minors or one eight-unit major to enhance your broader appreciation of fields related to urban and regional planning for example: landscape architecture, urban design, surveying, property economics, law and business management.

Further Information
School of Urban Development - Phone +61 7 3864 2852, Fax +61 7 3864 1515, email: bee.enquiries@qut.com

Domestic student tuition fee (Dfee) places
Undergraduate domestic full fee places (Dfee) are available in this course.

Find out more on Dfee.

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

Find out more on deferment.

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<tr>
<td>UDB101 Stewardship of Land</td>
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<tr>
<td>UDB161 Introduction to Planning and Design</td>
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<td>UDB162 History of Built Environment</td>
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<tbody>
<tr>
<td>BEB200 Introducing Sustainability</td>
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<tr>
<td>UDB104 Urban Development Economics</td>
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<td>UDB163 Land Use Planning</td>
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<td>UDB164 Population and Urban Studies</td>
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<td>UDB265 Site Planning</td>
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<td>UDB266 Planning Processes and Consultations</td>
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<tr>
<td>UDB102 Applied Law</td>
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<td>UDB267 Development Assessment and Infrastructure</td>
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| Year 3 - Semester 1 |
Year 3 - Semester 2

UDB302 Development Process
UDB370 Environmental Planning and Management

Year 4 - Semester 1

UDB301 Research Methods
UDB471 Urban Planning Practice
UDB472 Community Planning
UDB473 Planning Theory and Ethics

Year 4 - Semester 2

BEB801 Project 1
UDB202 Business Skills
UDB474 Regional Planning Practice
UDB475 Regional and Metropolitan Policy

Potential Careers:
Urban and Regional Planner, Urban Designer.
Master of Urban Development (Urban and Regional Planning) (UD50)

**Year offered:** 2008  
**Admissions:** Yes  
**CRICOS code:** 060809F  
**Course duration (full-time):** 1 year  
**Course duration (part-time):** 2 years  
**Domestic fees (per credit point):** 2008: $135 per credit point (subject to annual review)  
**Domestic fees (indicative):** 2008: $12,960  
**International Fees (per semester):** 2008: $9,984 per semester (subject to annual review)  
**Domestic Entry:** February and July  
**International Entry:** February and July  
**Total credit points:** 96  
**Standard credit points per full-time semester:** 48  
**Course coordinator:** Associate Professor Jay Yang  
(Please refer course specific enquiries to Course Leader.)  
**Discipline coordinator:** Dr Tan Yigitcanlar (Course Leader)  
**Campus:** Gardens Point  

**Overview**  
This course aims to enhance and advance the range of knowledge, skills and social understanding required to operate professionally within the urban development context. The course sets practice within the broader socioeconomic and political contexts that influence the development of policy and infrastructure in the built environment. The course is designed to offer graduates the full range of knowledge, skills and social understanding required to become a successful urban and regional planner. Early exit with a Graduate Diploma is available upon completion of four units in the course.

**Entry Requirements**  
A four-year full-time bachelor degree in a relevant urban development discipline area and a grade point average of 5.0 or more (on a 7-point scale) in that study, or an equivalent qualification determined by the Faculty. English language requirements for the course are an English Language Proficiency level in accordance with QUT requirements (IELTS score of 6.0 with no sub-band below 6.0) if English is not your first language. Applicants from a non-relevant background may gain entry through successful completion of BN85, the Graduate Certificate in Built Environment and Engineering.

If requested, supply documentation of professional work experience as detailed in Completing the PG Form.

**Professional Recognition**  
This course is seeking professional accreditation from the Planning Institute of Australia.

**Career Outcomes**  
Graduates can expect to be in demand in local, state and commonwealth government departments, planning and development enterprises and consultancies, and in the voluntary sector, both in Australia and overseas. Opportunities include development planning and assessment, consultancy within the urban design field, regional planning, plan and policy preparation for land use, environment, housing, transport, recreation, education, community engagement and development, and corporate planning.

**International Student Entry**  
International students must maintain an enrolment program that will allow them to complete their course within the specified timeframe of their eCoE (electronic Confirmation of Enrolment).

**Further Information**  
Faculty of Built Environment and Engineering - Phone +61 7 3138 1433, email: bee.enquiries@qut.com

**Course structure - February Entry**

| Full-time Course Structure - Year 1, Semester 1 |  |
|-----------------------------------------------|  |
| BEN610  Project Management Principles         |  |
| GSN235  Communication, Negotiation and Leadership |  |
| UDN510  Urban Planning Practice               |  |
| UDN512  Community Planning                    |  |

| Year 1, Semester 2 |  |
|-------------------|  |
| BEN710  Sustainable Practice in Built Environment and Engineering |  |
| BEN910  Integrated Project                                  |  |
| UDN514  Regional Planning Practice                          |  |
| UDN516  Master Concepts and Ethics Seminar                   |  |

| Part-time Course Structure - Year 1, Semester 1 |  |
|-----------------------------------------------|  |
| BEN610  Project Management Principles         |  |
| UDN510  Urban Planning Practice               |  |

| Year 1, Semester 2 |  |
|-------------------|  |
| UDN514  Regional Planning Practice                          |  |
| UDN516  Master Concepts and Ethics Seminar                   |  |

| Year 2, Semester 1 |  |
|-------------------|  |
| GSN235  Communication, Negotiation and Leadership |  |
| UDN512  Community Planning         |  |

| Year 2, Semester 2 |  |
|-------------------|  |
| BEN710  Sustainable Practice in Built Environment and Engineering |  |
| BEN910  Integrated Project                                  |  |

**Course structure - Mid Year Entry**

<p>| Full-time Course Structure - Year 1, Semester 2 |  |
|-----------------------------------------------|  |
| BEN710  Sustainable Practice in Built Environment and Engineering |  |
| GSN235  Communication, Negotiation and Leadership |  |
| UDN514  Regional Planning Practice               |  |
| UDN516  Master Concepts and Ethics Seminar                   |  |</p>
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