

Faculty of Built Environment and Engineering

Bachelor Degree

AR48 Bachelor of Architecture
 BN31 Bachelor of Built Environment (Landscape Architecture)
 CE44 Bachelor of Engineering (Civil)
 CN51 Bachelor of Applied Science (Construction Management)
 CN54 Bachelor of Property Economics
 DE40 Bachelor of Design
 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)
 EN40 Bachelor of Engineering
 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 (Mechatronics)
 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)
 ME40 Bachelor of Engineering (Infomechatronics)
 ME41 Bachelor of Engineering (Mechanical)
 ME41 Bachelor of Engineering (Mechanical) Conversion Program from Bachelor of Technology
 ME36/ME37
 UD40 Bachelor of Urban Development
 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 (Civil, Electrical or Mechanical)
 IX54 Bachelor of Engineering (Electrical)/Bachelor of Information Technology

Graduate Certificate

BN85 Graduate Certificate In Built Environment and Engineering

IX97 Graduate Certificate in Research Commercialisation

Graduate Diploma

PS66 Graduate Diploma in Landscape Architecture

Masters Degree (Coursework)

AR49 Master of Architecture

BN87 Master of Engineering Management

BN88 Master of Infrastructure Management

BN89 Master of Project Management

CN92 Master of Property Economics

DE50 Master of Design (Urban Design)

DE80 Master of Architecture

EN50 Master of Engineering (Systems)

IX99 Master of Research and Development Management

UD50 Master of Urban Development (Urban and Regional Planning)

Masters Degree (Research)

BN71 Master of Applied Science (Research)

BN72 Master of Engineering

Doctoral

IF49 Doctor of Philosophy (Built Environment, Engineering)

Foundation Programs

QC01 Accelerated Foundation

QC02 Standard Foundation

QC04 Extended Foundation

University Certificate

QC05 University Certificate In Tertiary Preparation

Study Abroad (Non-degree)

U080 University Study Abroad Certificate

University wide minors

Accounting, Economics and Finance

Advertising, Integrated Marketing Communication, Logistics, Marketing and Public Relations

Built Environment and Design

Communication

Creative Industries

Engineering

Entertainment

Entrepreneurship, Human Resource Management and Management

Faculty of Health

International Business, Languages, and Tourism and Entertainment Marketing

International Exchange

Justice and Law

Mathematical Sciences

Multimedia and Technologies

Natural Resource Sciences

Unit sets: Physical and Chemical Sciences

Unit sets: Science

Society and Culture

Urban Development and Construction

English Programs (International)

QC10 English for Academic Purposes for Degree programs

QC10 English for Academic Purposes for Foundation and University Diploma Programs

QC22 English for Tertiary Preparation

QC24 English For Academic Purposes Plus

QE05 General English Program (5 Weeks)

QE10 General English Program (10 Weeks)

QE15 General English Program (15 weeks)

QE20 General English Program (20 Weeks)

QE25 General English Program (25 Weeks)

QE30 General English Program (30 Weeks)

QE35 General English Program (35 Weeks)

QE40 General English Program (40 Weeks)

QE45 General English Program (45 Weeks)

Bachelor of Architecture (AR48)

Year offered: 2011

Admissions: No

CRICOS code: 052308E

Course duration (full-time): 5 years full-time

Domestic fees (indicative): 2012: CSP available August 2011

Domestic Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

International Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

QTAC code: 412372

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.

OP Guarantee: Yes

Total credit points: 480

Standard credit points per full-time semester: 48

Course coordinator: Mr Andrew Scott

Discipline coordinator: Dr Anoma Kumarasuriyar

Campus: Gardens Point

Please Note

This course has been discontinued. Any remaining students should seek advice from the Course Coordinator regarding their remaining course program.

Further Information

Phone +61 7 3138 2626, Fax +61 7 3138 5280, email: bee.enquiries@qut.com

Potential Careers:

Architect.

Master of Architecture (AR49)

Year offered: 2011

Admissions: No

CRICOS code: 067607D

Course duration (full-time): 2 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$11,125 (indicative) per semester

Domestic Entry: February and July (conditions apply for July entry)

International Entry: February and July (conditions apply for July entry)

Total credit points: 192

Standard credit points per full-time semester: 48

Standard credit points per part-time semester: 24

Course coordinator: Associate Professor Phil Crowther

Discipline coordinator: Dr Paul Sanders

Campus: Gardens Point

Overview

The Master of Architecture enables the development of advanced yet balanced understanding in architectural design and research, contextual studies, technology and science and studies for professional practice. It is the professional degree required, along with the requisite post-graduate work experience, for registration as an architect.

Entry Requirements

Completion of DE40 Bachelor of Design (Architectural Studies) or equivalent accredited 4-year architecture course; minimum GPA of 4.0 in scheduled final year units. Students from equivalent courses will also be assessed on an A3 folio of their design work in that course.

International Student Entry

Subject to English language requirements, entry for international students will be the same as above.

Professional Recognition

Graduates of the AR49 Master of Architecture meet the academic requirements for membership of the Australian Institute of Architects (AIA). Graduates who have also completed two years of practical architectural experience (at least one year postgraduate) 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.

Further information

The School of Design - Phone +61 7 3138 2626, Fax +61 7 3138 5280, email: bee.enquiries@qut.com

Bachelor of Built Environment (Landscape Architecture) (BN31)

Year offered: 2011

Admissions: No

CRICOS code: 003507D

Course duration (full-time): 3 years

Domestic fees (indicative): 2010: CSP \$3,878 per semester (indicative)

International Fees (indicative): 2011: \$12,000 per semester (indicative)

Domestic Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

International Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

QTAC code: 412342

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.

OP Guarantee: Yes

Total credit points: 288

Standard credit points per full-time semester: 48

Course coordinator: Mr Andrew Scott

Discipline coordinator: Dr Jeannie Sim

Campus: Gardens Point

Special Note

This course has been discontinued. Any remaining students should seek advice from the Course Coordinator regarding their remaining course program.

Further information

Phone +61 7 3138 2626, Fax +61 7 3138 5280, email: bee.enquiries@qut.com

Potential Careers:

Landscape Architect.

Master of Applied Science (Research) (BN71)

Year offered: 2011

Admissions: Yes

CRICOS code: 007897G

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

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

Domestic fees (indicative): Aust citizens or PRs will be awarded an RTS/RTA place or a QUT sponsorship for tuition fees. If you exceed the max time, you will be charged - 2011: \$11,875 per semester (indicative)

International Fees (indicative): 2011: \$13,250 (indicative) per semester

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

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 3138 2543

fax: +61 7 3138 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's 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

applicant's 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
3. Continuous development

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.

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 3138 1424, Fax +61 7 3138 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: 2011

Admissions: Yes

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 (indicative): Aust citizens or PRs will be awarded an RTS/RTA place or a QUT sponsorship for tuition fees. If you exceed the max time, you will be charged - 2012: \$12,000 per semester (indicative)

International Fees (indicative): 2011: \$13375 (indicative) per Semester

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

Professor Kunle Oloyede

Phone: +61 7 3138 2158

fax: +61 7 3138 1516

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 3138 1424, Fax +61 7 3138 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: 2011

Admissions: Yes

CRICOS code: 060808G

Course duration (full-time): 1 semester

Course duration (part-time): 2 semesters

Domestic fees (indicative): 2011: Full fee tuition \$8,500 (indicative) per semester

International Fees (indicative): 2011: \$11,375 (indicative) per semester

Domestic Entry: February and July

International Entry: February and July

Total credit points: 48

Standard credit points per full-time semester: 48

Course coordinator: Associate Professor Mark Ho (Please refer course specific enquiries to Course Leader.)

Discipline coordinator: Associate Professor Bambang Trigunarsyah (Course Leader)

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).

Special Note

The course structures are divided into two major categories: Standard program and UD50 Articulation program. All students, except those intending to advance to UD50 Masters of Urban Development (Urban and Regional

Planning), must follow the standard program.

Further Information

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

Standard Course structure - February Entry and July Entry

Full-time Structure - Year 1, Semester 1

BEE Undergraduate Unit 1
 BEE Undergraduate Unit 2
 Other Faculty Postgraduate Unit A
 Other Faculty Postgraduate Unit B
 All units to be approved by Postgraduate Coordinator prior to enrolment.

Part-time Structure

A part-time course structure will require completion of 1 BEE undergraduate level unit and 1 Other Faculty postgraduate level elective unit each semester (50% of standard load as above.)

Postgraduate Level Electives

IFP100	Knowledge Transfer and Research Commercialisation
INN311	Enterprise Systems
INN221	Technology Management
KIP401	Visual Communication
PUN301	Occupational Health and Safety Law and Management
PUP415	Occupational Health
PUN001	Contemporary Risk Management
PUN500	Safety Management
AMN430	International Logistics Management
MGN447	Managing in a Globalised Economy
MGN423	Contemporary Strategic Analysis
EFN420	Introduction To Financial Management

Or consult with BN85 Course Leader.

(Other suitable postgraduate units will be continually identified during course development.)

Undergraduate Level Electives

Suitable for BN87 path.

BSB115	Management
ENB333	Operations Management
ENB336	Industrial Engineering
ENB432	Engineering Asset Management and Maintenance

Or consult with BN87 Course Leader.

Suitable for BN88 path.

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

ENB432	Engineering Asset Management and Maintenance	UDN552	Population and Urban Studies
BEB114	Project Financing	UDN553	Site Planning
UDB104	Urban Development Economics	UDN554	Planning Processes and Consultations
UDB316	Cost Planning and Control Or consult with BN88 Course Leader.	UDN555	Development Assessment and Infrastructure
		UDN556	Development Process
		UDN557	Urban Design
		UDN558	Regional and Metropolitan Policy

Suitable for BN89 path.

UDB213	Construction Estimating
UDB312	Contract Administration
UDB313	Programming and Scheduling
UDB316	Cost Planning and Control
UDB410	Construction Management
BEB110	Organising and Managing Project Team
BEB111	Managing Project Quality
BEB114	Project Financing Or consult with BN89 Course Leader.

Suitable for DE50 path.

BEB902	Greening the Built Environment
BEB903	Greenhouse Solutions
BEB904	Eco-Innovation for Sustainability
DAB325	Architecture in the 20th Century
DAB525	Architecture and the City
HHB127	Environment And Society
NRB600	Sustainable Environmental Management Or consult with DE50 Course Leader. [BEB902, DAB325, and DAB525 are the most suitable.]

Suitable for EN50 path.

MOST SUITABLE:

ENB301	Instrumentation and Control
ENB342	Signals, Systems and Transforms
	MECHANICAL ENGINEERING ORIENTED:
ENB311	Stress Analysis
ENB312	Dynamics of Machinery
	ELECTRICAL ENGINEERING ORIENTED:
ENB350	Real-time Computer-based Systems
ENB352	Communication Environments For Embedded Systems

Or consult with EN50 Course Leader.

[Note: Some of these units have prerequisites which you will need to offer equivalencies for from your previous degree/s.]

UD50 Articulation Course structure - February Entry and July Entry

Full-time Structure - Year 1, Semester 1

Select 4 units from the list below:

UDN551	History of the Built Environment
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Part-time Structure

A part-time course structure will require completion of 2 units (50% of standard load as above.)

Master of Engineering Management (BN87)

Year offered: 2011

Admissions: Yes

CRICOS code: 006368G

Course duration (full-time): 1 year

Course duration (part-time): 2 years

Domestic fees (indicative): 2011: Full fee tuition \$9,250 (indicative) per semester

International Fees (indicative): 2011: \$11,375 (indicative) per semester

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 Mark Ho (Please refer course specific enquiries to Course Leader.)

Discipline coordinator: Dr Jacob Coetzee (Course Leader)

Campus: Gardens Point

Overview

This course offers an engineering management qualification to practising engineers through formal study in management and advanced engineering skills and knowledge. It provides graduates with analytical tools and methods required to improve operational efficiencies, typically within manufacturing and service organisations. It will prepare engineering graduates to take up management-level roles in operations management, quality control management, logistics or supply chain management.

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).

Advanced Standing

Students completing two Masters courses in the Faculty of Built Environment and Engineering will be eligible to apply for a maximum of 24 credit points advanced standing in the second course on the basis of common units already completed. Such students will be required to complete a minimum of 72cp to be determined in consultation with the nominated Course Leader, to achieve the second Masters.

Further Information

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

Full-time Course structure - February Entry

Year 1, Semester 1

BEN610	Project Management Principles
ENN510	Engineering Knowledge Management
ENN515	Total Quality Management
AMN435	Communication, Negotiation and Leadership

Year 1, Semester 2

BEN710	Sustainable Practice in Built Environment and Engineering
BEN910	Integrated Project
ENN530	Asset and Facility Management
ENN570	Enterprise Resource Planning

Full-time Course structure - Mid Year Entry

Year 1, Semester 2

BEN710	Sustainable Practice in Built Environment and Engineering
ENN530	Asset and Facility Management
ENN570	Enterprise Resource Planning
AMN435	Communication, Negotiation and Leadership

Year 2, Semester 1

BEN610	Project Management Principles
BEN910	Integrated Project
ENN510	Engineering Knowledge Management
ENN515	Total Quality Management

Part-time Course Structure - February Entry

Year 1, Semester 1

BEN610	Project Management Principles
ENN510	Engineering Knowledge Management

Year 1, Semester 2

BEN710	Sustainable Practice in Built Environment and Engineering
ENN530	Asset and Facility Management

Year 2, Semester 1

ENN515 Total Quality Management
AMN435 Communication, Negotiation and Leadership

Year 2, Semester 2

BEN910 Integrated Project
ENN570 Enterprise Resource Planning

Part-time Course structure - Mid-year Entry

Year 1, Semester 2

ENN530 Asset and Facility Management
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
AMN435 Communication, Negotiation and Leadership

Year 3, Semester 1

BEN910 Integrated Project
ENN515 Total Quality Management

Master of Infrastructure Management (BN88)

Year offered: 2011

Admissions: Yes

CRICOS code: 060807G

Course duration (full-time): 1 year

Course duration (part-time): 2 years

Domestic fees (indicative): 2011: Full fee tuition \$9,125 (indicative) per semester

International Fees (indicative): 2011: \$11,375 (indicative) per semester

Domestic Entry: February and July

International Entry: February and July

Total credit points: 96

Standard credit points per full-time semester: 48

Standard credit points per part-time semester: 24

Course coordinator: Associate Professor Mark Ho (Please refer course specific enquiries to Course Leader.)

Discipline coordinator: Associate Professor Bambang Trigunarsyah (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 two core units and two specialisation 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).

Advanced Standing

Students completing two Masters courses in the Faculty of Built Environment and Engineering will be eligible to apply for a maximum of 24 credit points advanced standing in the second course on the basis of common units already completed. Such students will be required to complete a minimum of 72cp to be determined in consultation with the nominated Course Leader, to achieve the second Masters.

Further Information

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

Full-time Course structure - February Entry

Year 1, Semester 1

BEN610	Project Management Principles
UDN572	Infrastructure Planning and Management
UDN574	Water Resource and Waste Management
AMN435	Communication, Negotiation and Leadership

Year 1, Semester 2

BEN710	Sustainable Practice in Built Environment and Engineering
BEN910	Integrated Project
ENN530	Asset and Facility Management
UDN576	Transportation Infrastructure

Full-time Course structure - Mid Year Entry

Year 1, Semester 2

BEN710	Sustainable Practice in Built Environment and Engineering
ENN530	Asset and Facility Management
UDN576	Transportation Infrastructure
AMN435	Communication, Negotiation and Leadership

Year 2, Semester 1

BEN610	Project Management Principles
BEN910	Integrated Project
UDN572	Infrastructure Planning and Management
UDN574	Water Resource and Waste Management

Part-time Course structure - February Entry

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

UDN574 Water Resource and Waste Management
AMN435 Communication, Negotiation and Leadership

Year 2, Semester 2

BEN910 Integrated Project
UDN576 Transportation Infrastructure

Part-time Course structure - Mid Year Entry

Year 1, Semester 2

ENN530 Asset and Facility Management
UDN576 Transportation Infrastructure

Year 2, Semester 1

BEN610 Project Management Principles
UDN572 Infrastructure Planning and Management

Year 2, Semester 2

BEN710 Sustainable Practice in Built Environment and
Engineering
AMN435 Communication, Negotiation and Leadership

Year 3, Semester 1

BEN910 Integrated Project
UDN574 Water Resource and Waste Management

Potential Careers:

Manager.

Master of Project Management (BN89)

Year offered: 2011

Admissions: Yes

CRICOS code: 060815G

Course duration (full-time): 1 year

Course duration (part-time): 2 years

Domestic fees (indicative): 2011: Full fee tuition \$9,375 (indicative) per semester

International Fees (indicative): 2011: \$12,500 (indicative) per semester

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 Mark Ho (Please refer course specific enquiries to Course Leader.)

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 two core units and two specialisation 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).

Advanced Standing

Students completing two Masters courses in the Faculty of Built Environment and Engineering will be eligible to apply for a maximum of 24 credit points advanced standing in the second course on the basis of common units already completed. Such students will be required to complete a minimum of 72cp to be determined in consultation with the nominated Course Leader, to achieve the second Masters.

Further Information

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

Full-time Course structure - February Entry

Year 1, Semester 1

BEN610	Project Management Principles
UDN590	Project Scope and Risk Management
UDN592	Resource, Schedule and Performance Management
AMN435	Communication, Negotiation and Leadership

Year 1, Semester 2

BEN710	Sustainable Practice in Built Environment and Engineering
BEN910	Integrated Project
UDN594	Procurement and Delivery Strategies
UDN596	Human Resource and Organisational Culture

Full-time Course structure - Mid Year Entry

Year 1, Semester 2

BEN710	Sustainable Practice in Built Environment and Engineering
UDN594	Procurement and Delivery Strategies
UDN596	Human Resource and Organisational Culture
AMN435	Communication, Negotiation and Leadership

Year 2, Semester 1

BEN610	Project Management Principles
BEN910	Integrated Project
UDN590	Project Scope and Risk Management
UDN592	Resource, Schedule and Performance Management

Part-time Course structure - February Entry

Year 1, Semester 1

BEN610	Project Management Principles
UDN590	Project Scope and Risk Management

Year 1, Semester 2

- UDN594 Procurement and Delivery Strategies
- UDN596 Human Resource and Organisational Culture

Year 2, Semester 1

- UDN592 Resource, Schedule and Performance Management
- AMN435 Communication, Negotiation and Leadership

Year 2, Semester 2

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

Part-time Course structure - Mid Year Entry

Year 1, Semester 2

- UDN594 Procurement and Delivery Strategies
- UDN596 Human Resource and Organisational Culture

Year 2, Semester 1

- BEN610 Project Management Principles
- UDN590 Project Scope and Risk Management

Year 2, Semester 2

- BEN710 Sustainable Practice in Built Environment and Engineering
- AMN435 Communication, Negotiation and Leadership

Year 3, Semester 1

- BEN910 Integrated Project
- UDN592 Resource, Schedule and Performance Management

Potential Careers:

Project Manager.

Bachelor of Engineering (Civil) (CE44)

Year offered: 2011

Admissions: No

CRICOS code: 037544G

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative)
per semester

International Fees (indicative): 2011: \$12,375 (indicative)
per semester

Domestic Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

International Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

QTAC code: 412502

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.

OP Guarantee: Yes

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Dr R.Mahalinga-Iyer

Discipline coordinator: Fraser McGregor

Campus: Gardens Point

Special Note

This course has been discontinued. Any remaining students should seek advice from the Course Coordinator regarding their remaining course program.

Further Information

Phone +61 7 3138 2678, Fax +61 7 3138 1515, email:
bee.enquiries@qut.com

Potential Careers:

Civil Engineer, Environmental Engineer.

Bachelor of Applied Science (Construction Management) (CN51)

Year offered: 2011

Admissions: No

CRICOS code: 006363B

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative)
per semester

International Fees (indicative): 2011: \$11,375 (indicative)
per semester

Domestic Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

International Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

QTAC code: 412312

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.

OP Guarantee: Yes

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Dr John Hayes

Discipline coordinator: Dr Vaughan Coffey

Campus: Gardens Point

Special Note

This course has been discontinued. Any remaining students should seek advice from the Course Coordinator regarding their remaining course program.

Further Information

Phone +61 7 3138 2678, Fax +61 7 3138 1515, email:
bee.enquiries@qut.com

Potential Careers:

Construction Manager, Estimator, Project Manager.

Bachelor of Property Economics (CN54)

Year offered: 2011

Admissions: No

CRICOS code: 040319A

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative)
per semester

International Fees (indicative): 2011: \$10,500 (indicative)
per semester

Domestic Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

International Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

QTAC code: 412322

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.

OP Guarantee: Yes

Total credit points: 384, or 288 for 3 years early exit option

Course coordinator: Dr John Hayes

Discipline coordinator: Dr Connie Susilawati

Campus: Gardens Point

Special Note

This course has been discontinued. Any remaining students should seek advice from the Course Leader regarding their remaining course program.

Further Information

Phone +61 7 3138 2678, Fax +61 7 3138 1515, email:
bee.enquiries@qut.com

Potential Careers:

Project Developer, Project Manager, Property Development, Property Economist, Property Management, Real Estate.

Master of Property Economics (CN92)

Year offered: 2011

Admissions: No

CRICOS code: 036432A

Course duration (full-time): 1.5 years

Course duration (part-time): 3 years

Domestic fees (indicative): 2011: Full fee tuition \$8,750 (indicative) per semester

International Fees (indicative): 2011: \$11,125 (indicative) per semester

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 Mark Ho (Please refer all course enquiries to Course Leader.)

Discipline coordinator: Associate Professor Bambang Trigunaryah (Course Leader)

Campus: Gardens Point

Special Note

This course has been discontinued. Any remaining students should seek advice from the Course Leader regarding their remaining course program.

Further Information

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

Potential Careers:

Project Developer, Property Development, Property Economist, Property Management.

Bachelor of Design (DE40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056386C

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative)
per semester

International Fees (indicative): Refer to majors

Domestic Entry: February

International Entry: February

OP Guarantee: Yes

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Mr Andrew Scott

Bachelor of Design (Architectural Studies) (DE40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056386C

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$11,500 (indicative) per semester

Domestic Entry: February

International Entry: February

QTAC code: 412372

Past rank cut-off: 92

Past OP cut-off: 5

OP Guarantee: Yes

Assumed knowledge: English (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Mr Andrew Scott

Discipline coordinator: Dr Anoma Kumarasuriyar

Campus: Gardens Point

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.

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.

Professional Recognition

DE40 Bachelor of Design (Architectural Studies) has received preliminary assessment from the Architects Accreditation Council of Australia (AACA) and will undergo full-assessment in early 2011.

Second majors and minors

You will be able to select from two 4 unit approved minors or one 8 unit approved second major to enhance and broaden your knowledge in a related field or area of interest. Please refer to the rules at the following location before making your selection:

<http://www.bee.qut.edu.au/study/current/2majormin/> .

ARCHITECTURAL STUDIES Second Major and Minor Options

Second Major:

A 2nd major from anywhere in QUT.

Minors:

A minor from anywhere in QUT.

Please remember that one minor must be from outside of your course.

(Design students interested in enrolling in the BEE Applications minor, must first consult and obtain approval from the Subject Area Coordinator/Course Coordinator .)

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).

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Further Information

The School of Design - Phone +61 7 3138 2626, Fax +61 7 3138 5280, email: bee.enquiries@qut.com

Course structure - Commencing February 2011

Year 1 - Semester 1

DEB100	Design and Sustainability
DAB110	Architectural Design 1
DEB101	Introducing Design
DEB103	Visualisation 1

Year 1 - Semester 2

DAB210	Architectural Design 2
DAB220	Placemaking in Architecture
DEB202	Introducing Design History
DEB203	Visualisation 2

Year 2 - Semester 1

DAB310	Architectural Design 3
DAB325	Architecture in the 20th Century
DAB330	Integrated Technologies 1
	Second Major/Minor unit

Year 2 - Semester 2

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

DAB410	Architectural Design 4
DAB420	Architecture, Culture and Space
DAB435	Architectural Technology 1 Second Major/Minor unit

Year 3 - Semester 1

DAB510	Architectural Design 5
DAB525	Architecture and the City
DAB530	Integrated Technologies 2 Second Major/Minor unit

Year 3 - Semester 2

DAB610	Architectural Design 6
DAB635	Architectural Technology 2
DEB601	Collaborative Design Second Major/Minor unit

Year 4 - Semester 1

DAB710	Architectural Design 7
DEB701	Design and Research Second Major/Minor unit Second Major/Minor unit

Year 4 - Semester 2

DAB810	Architectural Design 8
DEB801	Professional Practice Second Major/Minor unit Second Major/Minor unit

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Course structure - Commencing February 2010

Year 1 - Semester 1

DEB100	Design and Sustainability
DAB110	Architectural Design 1
DEB101	Introducing Design
DEB102	Introducing Design History

Year 1 - Semester 2

DEB200	Introducing Sustainability
DAB210	Architectural Design 2
DAB220	Placemaking in Architecture
DEB201	Digital Communication

Year 2 - Semester 1

DAB310	Architectural Design 3
DAB325	Architecture in the 20th Century
DAB330	Integrated Technologies 1 Second Major/Minor unit

Year 2 - Semester 2

DAB410	Architectural Design 4
DAB420	Architecture, Culture and Space
DAB435	Architectural Technology 1 Second Major/Minor unit

Year 3 - Semester 1

DAB510	Architectural Design 5
DAB525	Architecture and the City
DAB530	Integrated Technologies 2 Second Major/Minor unit

Year 3 - Semester 2

DAB610	Architectural Design 6
DAB635	Architectural Technology 2
DEB601	Collaborative Design Second Major/Minor unit

Year 4 - Semester 1

DAB710	Architectural Design 7
DEB701	Design and Research Second Major/Minor unit Second Major/Minor unit

Year 4 - Semester 2

DAB810	Architectural Design 8
DEB801	Professional Practice Second Major/Minor unit Second Major/Minor unit

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Course structure - Commencing February 2006 - 2009

Year 1 - Semester 1

BEB100	Introducing Professional Learning
DAB110	Architectural Design 1
DEB101	Introducing Design
DEB102	Introducing Design History

Year 1 - Semester 2

BEB200	Introducing Sustainability
DAB210	Architectural Design 2
DAB220	Placemaking in Architecture
DEB201	Digital Communication

Year 2 - Semester 1

DAB310	Architectural Design 3
DAB325	Architecture in the 20th Century
DAB330	Integrated Technologies 1

Second Major/Minor unit

Year 2 - Semester 2

- DAB410 Architectural Design 4
 - DAB420 Architecture, Culture and Space
 - DAB435 Architectural Technology 1
- Second Major/Minor unit

Year 3 - Semester 1

- DAB510 Architectural Design 5
 - DAB525 Architecture and the City
 - DAB530 Integrated Technologies 2
- Second Major/Minor unit

Year 3 - Semester 2

- DAB610 Architectural Design 6
 - DAB635 Architectural Technology 2
 - DEB601 Collaborative Design
- Second Major/Minor unit

Year 4 - Semester 1

- DAB710 Architectural Design 7
 - DEB701 Design and Research
- Second Major/Minor unit
- Second Major/Minor unit

Year 4 - Semester 2

- DAB810 Architectural Design 8
 - DEB801 Professional Practice
- Second Major/Minor unit
- Second Major/Minor unit

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Potential Careers:

Architect.

Bachelor of Design (Industrial Design) (DE40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056386C

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$11,875 (indicative) per semester

Domestic Entry: February

International Entry: February

QTAC code: 412382

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Mr Andrew Scott

Discipline coordinator: Dr Marianella Chamorro-Koc

Campus: Gardens Point

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.

Second majors and minors

You will be able to select from two 4 unit approved minors or one 8 unit approved second major to enhance and broaden your knowledge in a related field or area of interest. Please refer to the rules at the following location before making your selection:

<http://www.bee.qut.edu.au/study/current/2majormin/> .

INDUSTRIAL DESIGN Second Major and Minor Options

Second Major:

A 2nd major from anywhere in QUT.

Minors:

A minor from anywhere in QUT.

Please remember that one minor must be from outside of your course.

(Design students interested in enrolling in the BEE Applications minor, must first consult and obtain approval from the Subject Area Coordinator/Course Coordinator .)

Professional Recognition

The Bachelor of Design (Industrial Design) is recognised by DIA (Design Institute of Australia). Graduates of this course are eligible for DIA Membership. Industrial Design QUT is also an Educational member of ICSID (International Council of Societies of Industrial Design).

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Further Information

The School of Design - Phone +61 7 3138 2626, Fax +61 7 3138 5280, email: bee.enquiries@qut.com

Course structure - Commencing February 2011

Year 1 - Semester 1

DEB100	Design and Sustainability
DEB101	Introducing Design
DEB103	Visualisation 1
DNB101	Industrial Design 1

Year 1 - Semester 2

DEB202	Introducing Design History
DEB203	Visualisation 2
DNB201	Industrial Design 2
DNB202	Product Usability

Year 2 - Semester 1

DNB301	Industrial Design 3
DNB302	Computer Aided Industrial Design
DNB303	Manufacturing Technology
	Second Major/Minor unit

Year 2 - Semester 2

DNB401	Industrial Design 4
DNB402	Socio-cultural Studies
	Second Major/Minor unit
	Second Major/Minor unit

Year 3 - Semester 1

DNB501	Industrial Design 5
DNB502	Industrial Design History, Theory and Criticism
	Second Major/Minor unit
	Second Major/Minor unit

Year 3 - Semester 2

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

DEB601	Collaborative Design
DNB601	Industrial Design 6
DNB602	New Product Development
	Second Major/Minor unit

Year 4 - Semester 1

DEB701	Design and Research
DNB701	Industrial Design 7
DNB702	Human-centred Design Innovation
	Second Major/Minor unit

Year 4 - Semester 2

DEB801	Professional Practice
DNB801	Research and Innovation 1
DNB802	Research and Innovation 2
	Second Major/Minor unit

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Course structure - Commencing February 2010

Year 1 - Semester 1

DEB100	Design and Sustainability
DEB101	Introducing Design
DEB102	Introducing Design History
DNB101	Industrial Design 1

Year 1 - Semester 2

DEB200	Introducing Sustainability
DEB201	Digital Communication
DNB201	Industrial Design 2
DNB202	Product Usability

Year 2 - Semester 1

DNB301	Industrial Design 3
DNB302	Computer Aided Industrial Design
DNB303	Manufacturing Technology
	Second Major/Minor unit

Year 2 - Semester 2

DNB401	Industrial Design 4
DNB402	Socio-cultural Studies
	Second Major/Minor unit
	Second Major/Minor unit

Year 3 - Semester 1

DNB501	Industrial Design 5
DNB502	Industrial Design History, Theory and Criticism
	Second Major/Minor unit
	Second Major/Minor unit

Year 3 - Semester 2

DEB601	Collaborative Design
DNB601	Industrial Design 6
DNB602	New Product Development
	Second Major/Minor unit

Year 4 - Semester 1

DEB701	Design and Research
DNB701	Industrial Design 7
DNB702	Human-centred Design Innovation
	Second Major/Minor unit

Year 4 - Semester 2

DEB801	Professional Practice
DNB801	Research and Innovation 1
DNB802	Research and Innovation 2
	Second Major/Minor unit

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Course structure - Commencing February 2006 - 2009

Year 1 - Semester 1

BEB100	Introducing Professional Learning
DEB101	Introducing Design
DEB102	Introducing Design History
DNB101	Industrial Design 1

Year 1 - Semester 2

BEB200	Introducing Sustainability
DEB201	Digital Communication
DNB201	Industrial Design 2
DNB202	Product Usability

Year 2 - Semester 1

DNB301	Industrial Design 3
DNB302	Computer Aided Industrial Design
DNB303	Manufacturing Technology
	Second Major/Minor unit

Year 2 - Semester 2

DNB401	Industrial Design 4
DNB402	Socio-cultural Studies
	Second Major/Minor unit
	Second Major/Minor unit

Year 3 - Semester 1

DNB501	Industrial Design 5
DNB502	Industrial Design History, Theory and Criticism
	Second Major/Minor unit

Second Major/Minor unit

Year 3 - Semester 2

- DEB601 Collaborative Design
 - DNB601 Industrial Design 6
 - DNB602 New Product Development
- Second Major/Minor unit

Year 4 - Semester 1

- DEB701 Design and Research
 - DNB701 Industrial Design 7
 - DNB702 Human-centred Design Innovation
- Second Major/Minor unit

Year 4 - Semester 2

- DEB801 Professional Practice
 - DNB801 Research and Innovation 1
 - DNB802 Research and Innovation 2
- Second Major/Minor unit

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Potential Careers:

Industrial Designer.

Bachelor of Design (Interior Design) (DE40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056386C

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$11,500 (indicative) per semester

Domestic Entry: February

International Entry: February

QTAC code: 412362

Past rank cut-off: 88

Past OP cut-off: 7

OP Guarantee: Yes

Assumed knowledge: English (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Mr Andrew Scott

Discipline coordinator: Mr Paul Smith

Campus: Gardens Point

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.

Second majors and minors

You will be able to select from two 4 unit approved minors or one 8 unit approved second major to enhance and broaden your knowledge in a related field or area of interest. Please refer to the rules at the following location before making your selection:

<http://www.bee.qut.edu.au/study/current/2majormin/>

INTERIOR DESIGN Second Major and Minor Options

Second Major:

A 2nd major from anywhere in QUT.

Minors:

A minor from anywhere in QUT.

Please remember that one minor must be from outside of your course.

(Design students interested in enrolling in the BEE Applications minor, must first consult and obtain approval from the Subject Area Coordinator/Course Coordinator .)

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).

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Further Information

The School of Design - Phone +61 7 3138 2626, Fax +61 7 3138 5280, email: bee.enquiries@qut.com

Course structure - Commencing February 2011

Year 1 - Semester 1

DEB100	Design and Sustainability
DEB101	Introducing Design
DEB103	Visualisation 1
DTB101	Interior Design 1

Year 1 - Semester 2

DEB202	Introducing Design History
DEB203	Visualisation 2
DTB201	Interior Design 2
DTB202	Design Technology

Year 2 - Semester 1

DTB301	Interior Design 3
DTB302	Colour Studies
DTB303	Technical Design
	Second Major/Minor unit

Year 2 - Semester 2

DTB401	Interior Design 4
DTB402	Interior Systems
DTB403	Human Environment
	Second Major/Minor unit

Year 3 - Semester 1

DTB501	Interior Design 5
DTB502	Environments in Transition
DTB503	Furniture Studies
	Second Major/Minor unit

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

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Course structure - Commencing February 2010

Year 1 - Semester 1

DEB100	Design and Sustainability
DEB101	Introducing Design
DEB102	Introducing Design History
DTB101	Interior Design 1

Year 1 - Semester 2

DEB200	Introducing Sustainability
DEB201	Digital Communication
DTB201	Interior Design 2
DTB202	Design Technology

Year 2 - Semester 1

DTB301	Interior Design 3
DTB302	Colour Studies
DTB303	Technical Design
	Second Major/Minor unit

Year 2 - Semester 2

DTB401	Interior Design 4
DTB402	Interior Systems
DTB403	Human Environment
	Second Major/Minor unit

Year 3 - Semester 1

DTB501	Interior Design 5
DTB502	Environments in Transition
DTB503	Furniture Studies

Second Major/Minor unit

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

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Course structure - Commencing February 2006 - 2009

Year 1 - Semester 1

BEB100	Introducing Professional Learning
DEB101	Introducing Design
DEB102	Introducing Design History
DTB101	Interior Design 1

Year 1 - Semester 2

BEB200	Introducing Sustainability
DEB201	Digital Communication
DTB201	Interior Design 2
DTB202	Design Technology

Year 2 - Semester 1

DTB301	Interior Design 3
DTB302	Colour Studies
DTB303	Technical Design
	Second Major/Minor unit

Year 2 - Semester 2

DTB401	Interior Design 4
DTB402	Interior Systems
DTB403	Human Environment
	Second Major/Minor unit

Year 3 - Semester 1

DTB501	Interior Design 5
DTB502	Environments in Transition

DTB503 Furniture Studies
Second Major/Minor unit

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

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Potential Careers:

Interior Designer.

Bachelor of Design (Landscape Architecture) (DE40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056386C

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$12,125 (indicative) per semester

Domestic Entry: February

International Entry: February

QTAC code: 412342

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Mr Andrew Scott

Discipline coordinator: Dr Jeannie Sim

Campus: Gardens Point

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.

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.

Professional Recognition

This course has accreditation from the Australian Institute of Landscape Architects (AILA). Graduates can apply for membership of this professional organisation.

Second majors and minors

You will be able to select from two 4 unit approved minors or one 8 unit approved second major to enhance and broaden your knowledge in a related field or area of interest. Please refer to the rules at the following location before making your selection:

<http://www.bee.qut.edu.au/study/current/2majormin/> .

LANDSCAPE ARCHITECTURE Second Major and Minor

Options

Second Major:

A 2nd major from anywhere in QUT.

Minors:

A minor from anywhere in QUT.

Please remember that one minor must be from outside of your course.

(Design students interested in enrolling in the BEE Applications minor, must first consult and obtain approval from the Subject Area Coordinator/Course Coordinator .)

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).

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Further Information

The School of Design - Phone +61 7 3138 2626, Fax +61 7 3138 5280, email: bee.enquiries@qut.com

Course structure - Commencing February 2011

Year 1 - Semester 1

DEB100	Design and Sustainability
DEB101	Introducing Design
DEB103	Visualisation 1
DLB130	Landscape Design 1

Year 1 - Semester 2

DEB202	Introducing Design History
DEB203	Visualisation 2
DLB210	Landscape Design 2
DLB230	Landscape Horticulture

Year 2 - Semester 1

DLB310	Landscape Design 3
DLB330	Landscape Ecology
	Second Major/Minor unit
	Second Major/Minor unit

Year 2 - Semester 2

DLB410	Landscape Design 4
DLB430	Landscape Construction 1
	Second Major/Minor unit
	Second Major/Minor unit

Year 3 - Semester 1

DLB510	Landscape Design 5
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FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

DLB525 History and Criticism of Landscape Design
 DLB530 Landscape Construction 2
 Second Major/Minor unit

Year 3 - Semester 2

DEB601 Collaborative Design
 DLB630 Landscape Construction 3
 DLB645 Landscape Practice and Law
 Second Major/Minor unit

Year 4 - Semester 1

DEB701 Design and Research
 DLB710 Landscape Design 6
 DLB730 Landscape Design 7
 Second Major/Minor unit

Year 4 - Semester 2

DEB801 Professional Practice
 DLB810 Landscape Planning and Policy
 DLB830 Landscape Design 8
 Second Major/Minor unit

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Course structure - Commencing February 2010

Year 1 - Semester 1

DEB100 Design and Sustainability
 DEB101 Introducing Design
 DEB102 Introducing Design History
 DLB130 Landscape Design 1

Year 1 - Semester 2

DEB200 Introducing Sustainability
 DEB201 Digital Communication
 DLB210 Landscape Design 2
 DLB230 Landscape Horticulture

Year 2 - Semester 1

DLB310 Landscape Design 3
 DLB330 Landscape Ecology
 Second Major/Minor unit
 Second Major/Minor unit

Year 2 - Semester 2

DLB410 Landscape Design 4
 DLB430 Landscape Construction 1
 Second Major/Minor unit
 Second Major/Minor unit

Year 3 - Semester 1

DLB510 Landscape Design 5
 DLB525 History and Criticism of Landscape Design
 DLB530 Landscape Construction 2
 Second Major/Minor unit

Year 3 - Semester 2

DEB601 Collaborative Design
 DLB630 Landscape Construction 3
 DLB645 Landscape Practice and Law
 Second Major/Minor unit

Year 4 - Semester 1

DEB701 Design and Research
 DLB710 Landscape Design 6
 DLB730 Landscape Design 7
 Second Major/Minor unit

Year 4 - Semester 2

DEB801 Professional Practice
 DLB810 Landscape Planning and Policy
 DLB830 Landscape Design 8
 Second Major/Minor unit

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Course structure - Commencing February 2006 - 2009

Year 1 - Semester 1

BEB100 Introducing Professional Learning
 DEB101 Introducing Design
 DEB102 Introducing Design History
 DLB130 Landscape Design 1

Year 1 - Semester 2

BEB200 Introducing Sustainability
 DEB201 Digital Communication
 DLB210 Landscape Design 2
 DLB230 Landscape Horticulture

Year 2 - Semester 1

DLB310 Landscape Design 3
 DLB330 Landscape Ecology
 Second Major/Minor unit
 Second Major/Minor unit

Year 2 - Semester 2

DLB410 Landscape Design 4
 DLB430 Landscape Construction 1
 Second Major/Minor unit
 Second Major/Minor unit

Year 3 - Semester 1

- DLB510 Landscape Design 5
- DLB525 History and Criticism of Landscape Design
- DLB530 Landscape Construction 2
Second Major/Minor unit

Year 3 - Semester 2

- DEB601 Collaborative Design
- DLB630 Landscape Construction 3
- DLB645 Landscape Practice and Law
Second Major/Minor unit

Year 4 - Semester 1

- DEB701 Design and Research
- DLB710 Landscape Design 6
- DLB730 Landscape Design 7
Second Major/Minor unit

Year 4 - Semester 2

- DEB801 Professional Practice
- DLB810 Landscape Planning and Policy
- DLB830 Landscape Design 8
Second Major/Minor unit

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Potential Careers:

Landscape Architect.

Master of Design (Urban Design) (DE50)

Year offered: 2011

Admissions: Yes

CRICOS code: 060812M

Course duration (full-time): 1 year

Course duration (part-time): 2 years

Domestic fees (indicative): 2011: Full fee tuition \$8,625 (indicative) per semester

International Fees (indicative): 2011: \$11,750 (indicative) per semester

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 Mark Ho (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 two core units and two specialisation 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.

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).

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.

Advanced Standing

Students completing two Masters courses in the Faculty of Built Environment and Engineering will be eligible to apply for a maximum of 24 credit points advanced standing in the second course on the basis of common units already completed. Such students will be required to complete a minimum of 72cp to be determined in consultation with the nominated Course Leader, to achieve the second Masters.

Further Information

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

Full-time Course structure - February Entry 2010 onwards

Year 1, Semester 1

BEN610	Project Management Principles
DEN510	Urban Design and Theory Studio A
DEN511	Theory Research Project A
AMN435	Communication, Negotiation and Leadership

Year 1, Semester 2

BEN710	Sustainable Practice in Built Environment and Engineering
BEN910	Integrated Project
DEN520	Urban Design and Theory Studio B
DEN521	Theory Research Project B

Full-time Course structure - Mid Year Entry 2010 onwards

Year 1, Semester 2

BEN710	Sustainable Practice in Built Environment and Engineering
DEN520	Urban Design and Theory Studio B
DEN521	Theory Research Project B
AMN435	Communication, Negotiation and Leadership

Year 2, Semester 1

BEN610	Project Management Principles
BEN910	Integrated Project
DEN510	Urban Design and Theory Studio A
DEN511	Theory Research Project A

Part-time Course structure - February Entry 2010 onwards

Year 1, Semester 1

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

BEN610 Project Management Principles
DEN510 Urban Design and Theory Studio A

Year 1, Semester 2

DEN520 Urban Design and Theory Studio B
DEN521 Theory Research Project B

Year 2, Semester 1

DEN511 Theory Research Project A
AMN435 Communication, Negotiation and Leadership

Year 2, Semester 2

BEN710 Sustainable Practice in Built Environment and Engineering
BEN910 Integrated Project

Part-time Course structure - Mid Year Entry 2010 onwards

Year 1, Semester 2

BEN710 Sustainable Practice in Built Environment and Engineering
DEN521 Theory Research Project B

Year 2, Semester 1

BEN610 Project Management Principles
DEN510 Urban Design and Theory Studio A

Year 2, Semester 2

DEN520 Urban Design and Theory Studio B
AMN435 Communication, Negotiation and Leadership

Year 3, Semester 1

BEN910 Integrated Project
DEN511 Theory Research Project A

Part-time Course structure - Mid Year Entry 2008 & 2009

Year 1, Semester 2

BEN710 Sustainable Practice in Built Environment and Engineering
Choose one of:
UDN512 Community Planning
UDN514 Regional Planning Practice
UDN576 Transportation Infrastructure

Year 2, Semester 1

BEN610 Project Management Principles
DEN510 Urban Design and Theory Studio A

Year 2, Semester 2

DEN520 Urban Design and Theory Studio B
AMN435 Communication, Negotiation and Leadership
OR
GSN235 Communication, Negotiation and Leadership

Year 3, Semester 1

BEN910 Integrated Project
UDN510 Urban Planning Practice
OR
UDN572 Infrastructure Planning and Management

Part-time Course structure - February Entry 2008 & 2009

Year 1, Semester 1

BEN610 Project Management Principles
DEN510 Urban Design and Theory Studio A

Year 1, Semester 2

DEN520 Urban Design and Theory Studio B
Choose one of:
UDN512 Community Planning
UDN514 Regional Planning Practice
UDN576 Transportation Infrastructure

Year 2, Semester 1

AMN435 Communication, Negotiation and Leadership
OR
GSN235 Communication, Negotiation and Leadership
UDN510 Urban Planning Practice
OR
UDN572 Infrastructure Planning and Management

Year 2, Semester 2

BEN710 Sustainable Practice in Built Environment and Engineering
BEN910 Integrated Project

Full-time Course structure - Mid Year Entry 2008 & 2009

Year 1, Semester 2

BEN710 Sustainable Practice in Built Environment and Engineering
DEN520 Urban Design and Theory Studio B
AMN435 Communication, Negotiation and Leadership
OR
GSN235 Communication, Negotiation and Leadership
Choose one of:
UDN512 Community Planning
UDN514 Regional Planning Practice
UDN576 Transportation Infrastructure

Year 2, Semester 1

BEN610 Project Management Principles
BEN910 Integrated Project
DEN510 Urban Design and Theory Studio A
UDN510 Urban Planning Practice

OR

UDN572 Infrastructure Planning and Management

Full-time Course structure - February Entry 2008 & 2009

Year 1, Semester 1

BEN610 Project Management Principles

DEN510 Urban Design and Theory Studio A

AMN435 Communication, Negotiation and Leadership

OR

GSN235 Communication, Negotiation and Leadership

UDN510 Urban Planning Practice

OR

UDN572 Infrastructure Planning and Management

Year 1, Semester 2

BEN710 Sustainable Practice in Built Environment and Engineering

BEN910 Integrated Project

DEN520 Urban Design and Theory Studio B

Choose one of:

UDN512 Community Planning

UDN514 Regional Planning Practice

UDN576 Transportation Infrastructure

Potential Careers:

Urban Designer.

Master of Architecture (DE80)

Year offered: 2011

Admissions: Yes

CRICOS code: 056390G

Course duration (full-time): 1 year

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$11,125 (indicative) per semester

Domestic Entry: February

International Entry: February

Total credit points: 96

Standard credit points per full-time semester: 48

Course coordinator: Associate Professor Philip Crowther

Campus: Gardens Point

DAN220 Architectural Theory and Research 2

DAN230 Advanced Studio in Integrated Technologies

DAN245 Professional Practice

Potential Careers:

Architect.

Overview

The Master of Architecture enables the development of advanced yet balanced understanding in architectural design and research, contextual studies, technology and science and studies for professional practice. It is the professional degree required, along with the requisite post-graduate work experience, for registration as an architect.

Entry Requirements

All students entering DE80 Master of Architecture must have completed DE40 Bachelor of Design (Architectural Studies). Applicants who have not completed DE40, must have completed four years full time (or equivalent) study in an accredited program (accredited by the AACA), including the award of an architectural design degree. Students who have such academic achievement in a non-accredited program (international programs), may be asked to submit a portfolio of design work.

International Student Entry

Subject to English language requirements, entry for international students will be the same as above.

Professional Recognition

DE80 Master of Architecture has received preliminary assessment from the Architects Accreditation Council of Australia (AACA) and will undergo full-assessment in early 2011.

Further information

The School of Design - Phone +61 7 3138 2626, Fax +61 7 3138 5280, email: bee.enquiries@qut.com

Course structure

Year 1 - Semester 1

DAN100 Master Studio A

DAN110 Architectural Theory and Research 1

DAN125 Contemporary Architectural Culture

DAN135 Advanced Topics in Architectural Technology 1

Year 1 - Semester 2

DAN200 Master Studio B

Bachelor of Engineering (Electrical and Computer Engineering) (EE41)

Year offered: 2011

Admissions: No

CRICOS code: 003490G

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$12,125 (indicative) per semester

Domestic Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

International Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

QTAC code: 412502

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.

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

Special Note

This course has been discontinued. Any remaining students should seek advice from the Course Coordinator regarding their remaining course program.

Further Information

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

Potential Careers:

Electrical and Computer Engineer, Electrical Engineer.

Bachelor of Engineering (EN40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056529D

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): Refer to majors

Domestic Entry: February and July

International Entry: February and July

QTAC code: 412502

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Refer to majors

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Dr R.Mahalinga-Iyer

Campus: Gardens Point

Recommended Study

Chemistry, Maths C and Physics.

Professional Recognition

Full professional accreditation from Engineers Australia has been given for all primary majors in this course. In addition, Software Engineering also has full professional accreditation with the Australian Computer Society.

Second Majors

Depending on your choice of primary major, you may have the opportunity to undertake a second major or two minors. A second major is an established set of eight units (96 credit points) in the same discipline. A minor is an established set of four units (48 credit points) in the same discipline or from anywhere in the University. You will select your primary major, second major and/or minors after the completion of your first year.

Special Course Requirements

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

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, Fax +61 7 3138 5280, email: bee.enquiries@qut.com

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Year 1 - February entry 2011 onwards (common for all Engineering majors)

Year 1 - Semester 1

ENB100	Engineering and Sustainability
ENB110	Engineering Statics and Materials
ENB130	Mechanical and Thermal Energy
MAB125	Foundations of Engineering Mathematics OR
MAB126	Mathematics for Engineering 1

Year 1 - Semester 2

ENB120	Electrical Energy and Measurements
ENB150	Introducing Engineering Design
ENB200	Introducing Engineering Systems
MAB126	Mathematics for Engineering 1 OR
MAB127	Mathematics for Engineering 2

Year 1 - Mid-year entry 2011 onwards (common for all Engineering majors)

Year 1 - Semester 2

ENB100	Engineering and Sustainability
ENB110	Engineering Statics and Materials
MAB125	Foundations of Engineering Mathematics OR
MAB126	Mathematics for Engineering 1

Year 1 - Summer

ENB120	Electrical Energy and Measurements
MAB126	Mathematics for Engineering 1 OR
MAB127	Mathematics for Engineering 2

Year 1 - February entry 2010 (common for all Engineering majors)

Year 1 - Semester 1

ENB100	Engineering and Sustainability
ENB110	Engineering Statics and Materials
ENB120	Electrical Energy and Measurements
MAB125	Foundations of Engineering Mathematics OR
MAB126	Mathematics for Engineering 1

Year 1 - Semester 2

- ENB130 Mechanical and Thermal Energy
- ENB150 Introducing Engineering Design
- ENB200 Introducing Engineering Systems
- MAB126 Mathematics for Engineering 1
- OR
- MAB127 Mathematics for Engineering 2

Year 1 - Mid-year entry 2010 (common for all Engineering majors)

Year 1 - Semester 2

- ENB100 Engineering and Sustainability
- ENB110 Engineering Statics and Materials
- ENB130 Mechanical and Thermal Energy
- MAB125 Foundations of Engineering Mathematics
- OR
- MAB126 Mathematics for Engineering 1

Year 1 - Summer

- ENB120 Electrical Energy and Measurements
- MAB126 Mathematics for Engineering 1
- OR
- MAB127 Mathematics for Engineering 2

Potential Careers:

Biomechanical Engineer, Biomedical Engineer, Civil Engineer, Computer Systems Engineer, Electrical and Computer Engineer, Electrical Engineer, Engineer, Mechanical Engineer, Medical Engineer.

Bachelor of Engineering (Aerospace Avionics) (EN40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056529D

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$12,000 (indicative) per semester

Domestic Entry: February and July

International Entry: February and July

QTAC code: 412502

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

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

Recommended Study

Chemistry, Math C and Physics.

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

Full professional accreditation from Engineers Australia has been given for this course.

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.

Special Course Requirements

Students must complete 60 days approved industrial experience in an engineering environment, including 10 days specialist experience in the avionics industry as part of the Work Integrated Learning unit.

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).

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Further Information

School of Engineering Systems - Phone +61 7 3138 1993, Fax +61 7 3138 1516, email: bee.enquiries@qut.com

Full-time Course structure - Students commencing February 2010 onwards (Years 2 - 4)

Please Note:

For 1st year enrolment program please refer to EN40 Bachelor of Engineering course entry.

Year 2 - Semester 1 (to be introduced in 2011)

ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
ENB250	Electrical Circuits
MAB127	Mathematics for Engineering 2
	OR
MAB233	Engineering Mathematics 3

Year 2 - Semester 2 (to be introduced in 2011)

ENB121	Aerodynamics
ENB242	Introduction To Telecommunications
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems

Year 3 - Semester 1 (to be introduced in 2012)

ENB241	Software Systems Design
ENB342	Signals, Systems and Transforms
ENB348	Aircraft Systems and Flight Control
ENB354	Introduction To Systems Design

Year 3 - Semester 2 (to be introduced in 2012)

ENB343	Fields, Transmission and Propagation
ENB347	Modern Flight Control Systems
ENB355	Advanced Systems Design

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MAB233 Engineering Mathematics 3
OR
Selective

Year 4 - Semester 1 (to be introduced in 2013)

BEB801 Project 1
ENB346 Digital Communications
ENB440 RF Techniques and Modern Applications
ENB451 Aerospace Radio and Radar Systems

Year 4 - Semester 2 (to be introduced in 2013)

BEB701 Work Integrated Learning 1
BEB802 Project 2
ENB357 Spacecraft Guidance and Control
ENB447 Navigation Systems For Aircraft

Aerospace Avionics Selectives

ENB344 Industrial Electronics
ENB448 Signal Processing and Filtering
ENB457 Controls, Systems and Applications
INB270 Programming

Full-time Course structure - Students commencing Mid-Year 2010 (Years 2 - 5)

Please Note:

For 1st year enrolment program please refer to EN40 Bachelor of Engineering course entry.

Year 2 - Semester 1 (to be introduced in 2011)

ENB240 Introduction To Electronics
ENB246 Engineering Problem Solving
ENB250 Electrical Circuits
MAB127 Mathematics for Engineering 2
OR
MAB233 Engineering Mathematics 3

Year 2 - Semester 2 (to be introduced in 2011)

ENB150 Introducing Engineering Design
ENB200 Introducing Engineering Systems
ENB242 Introduction To Telecommunications
ENB243 Linear Circuits and Systems

Year 3 - Semester 1 (to be introduced in 2012)

ENB241 Software Systems Design
ENB342 Signals, Systems and Transforms
ENB354 Introduction To Systems Design
ENB440 RF Techniques and Modern Applications

Year 3 - Semester 2 (to be introduced in 2012)

ENB121 Aerodynamics
ENB244 Microprocessors and Digital Systems

ENB343 Fields, Transmission and Propagation
ENB355 Advanced Systems Design

Year 4 - Semester 1 (to be introduced in 2013)

ENB346 Digital Communications
ENB348 Aircraft Systems and Flight Control
MAB233 Engineering Mathematics 3
OR
Selective

Year 4 - Semester 2 (to be introduced in 2013)

BEB801 Project 1
ENB347 Modern Flight Control Systems
ENB357 Spacecraft Guidance and Control
ENB447 Navigation Systems For Aircraft

Year 5 - Semester 1 (to be introduced in 2014)

BEB701 Work Integrated Learning 1
BEB802 Project 2
ENB451 Aerospace Radio and Radar Systems

Aerospace Avionics Selectives

ENB344 Industrial Electronics
ENB448 Signal Processing and Filtering
ENB457 Controls, Systems and Applications
INB270 Programming

Full-time Course structure - Commencing February 2009

Year 1 - Semester 1

BEB100 Introducing Professional Learning
ENB101 Engineering Mechanics 1
ENB104 Engineering Materials
MAB131 Engineering Mathematics 1A
OR
MAB180 Engineering Mathematics 1B

Year 1 - Semester 2

BEB200 Introducing Sustainability
ENB103 Electrical Engineering
MAB132 Engineering Mathematics 2A
OR
MAB182 Engineering Mathematics 2B
PCB136 Engineering Physics 1C

Year 2 - Semester 1

ENB240 Introduction To Electronics
ENB242 Introduction To Telecommunications
ENB246 Engineering Problem Solving
MAB233 Engineering Mathematics 3

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Year 2 - Semester 2

ENB121	Aerodynamics
ENB140	Introduction to Avionics
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems

Year 3 - Semester 1

ENB342	Signals, Systems and Transforms
ENB343	Fields, Transmission and Propagation
ENB348	Aircraft Systems and Flight Control
ENB354	Introduction To Systems Design

Year 3 - Semester 2

ENB241	Software Systems Design
ENB346	Digital Communications
ENB347	Modern Flight Control Systems
ENB355	Advanced Systems Design

Year 4 - Semester 1

BEB801	Project 1
ENB440	RF Techniques and Modern Applications
ENB443	Space Technology
ENB451	Aerospace Radio and Radar Systems

Year 4 - Semester 2

BEB701	Work Integrated Learning 1
BEB802	Project 2
ENB444	Spacecraft Guidance and Navigation
ENB447	Navigation Systems For Aircraft

Full-time Course structure - Commencing February 2007 & 2008

Year 1 - Semester 1

BEB100	Introducing Professional Learning
ENB140	Introduction to Avionics
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B
PCB136	Engineering Physics 1C

Year 1 - Semester 2

ENB101	Engineering Mechanics 1
ENB103	Electrical Engineering
ENB121	Aerodynamics
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B

Year 2 - Semester 1

ENB240	Introduction To Electronics
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ENB242	Introduction To Telecommunications
ENB246	Engineering Problem Solving
MAB233	Engineering Mathematics 3

Year 2 - Semester 2

BEB200	Introducing Sustainability
ENB241	Software Systems Design
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems

Year 3 - Semester 1

ENB342	Signals, Systems and Transforms
ENB343	Fields, Transmission and Propagation
ENB348	Aircraft Systems and Flight Control
ENB354	Introduction To Systems Design

Year 3 - Semester 2

ENB346	Digital Communications
ENB347	Modern Flight Control Systems
ENB355	Advanced Systems Design
ENB356	Military Combat Electronics

Year 4 - Semester 1

BEB801	Project 1
ENB440	RF Techniques and Modern Applications
ENB443	Space Technology
ENB451	Aerospace Radio and Radar Systems

Year 4 - Semester 2

BEB701	Work Integrated Learning 1
BEB802	Project 2
ENB444	Spacecraft Guidance and Navigation
ENB447	Navigation Systems For Aircraft

Full-time Course structure - Commencing February 2006

Year 1 - Semester 1

ENB101	Engineering Mechanics 1
ENB140	Introduction to Avionics
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1
PCB136	Engineering Physics 1C

Year 1 - Semester 2

BEB100	Introducing Professional Learning
BEB200	Introducing Sustainability
ENB103	Electrical Engineering
MAB132	Engineering Mathematics 1B
	OR

MAB182 Engineering Mathematics 2B

Year 2 - Semester 1

ENB240 Introduction To Electronics
ENB242 Introduction To Telecommunications
ENB246 Engineering Problem Solving
MAB233 Engineering Mathematics 3

Year 2 - Semester 2

ENB121 Aerodynamics
ENB241 Software Systems Design
ENB243 Linear Circuits and Systems
ENB244 Microprocessors and Digital Systems

Year 3 - Semester 1

ENB342 Signals, Systems and Transforms
ENB343 Fields, Transmission and Propagation
ENB348 Aircraft Systems and Flight Control
ENB354 Introduction To Systems Design

Year 3 - Semester 2

ENB346 Digital Communications
ENB347 Modern Flight Control Systems
ENB355 Advanced Systems Design
ENB356 Military Combat Electronics

Year 4 - Semester 1

BEB801 Project 1
ENB440 RF Techniques and Modern Applications
ENB443 Space Technology
ENB451 Aerospace Radio and Radar Systems

Year 4 - Semester 2

BEB701 Work Integrated Learning 1
BEB802 Project 2
ENB444 Spacecraft Guidance and Navigation
ENB447 Navigation Systems For Aircraft

Potential Careers:

Aerospace Avionics Engineer, Electrical and Computer Engineer, Electrical Engineer, Engineer.

Bachelor of Engineering (Civil and Construction) (EN40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056529D

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$12,125 (indicative) per semester

Domestic Entry: February and July

International Entry: February and July

QTAC code: 412502

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Dr R.Mahalinga-Iyer

Discipline coordinator: Fraser McGregor

Campus: Gardens Point

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 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 part of the Work Integrated Learning unit.

Second Majors and Minors

You will have the opportunity to undertake either a 2nd major or two 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 civil engineering units. The second minor must be taken from an approved list outside your discipline.

Please refer to the rules at the following location before making your selection:

<http://www.bee.qut.edu.au/study/current/2majormin/>

CIVIL AND CONSTRUCTION ENGINEERING Second Major and Minor Options

Second Major:

Civil Infrastructure

Minors:

BEE Applications Minor

plus

A minor from anywhere in QUT that is outside of the course.

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.

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

School of Urban Development - Phone +61 7 3138 2678, Fax +61 7 3138 1515, email: bee.enquiries@qut.com

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Full-time Course structure – Students commencing February 2010 onwards (Years 2 – 4)

Please Note:

For 1st year enrolment program please refer to EN40 Bachelor of Engineering course entry.

Year 2 - Semester 1 (to be introduced in 2011)

ENB270	Engineering Mechanics of Materials
ENB272	Geotechnical Engineering 1
ENB273	Civil Materials
MAB233	Engineering Mathematics 3

Year 2 - Semester 2 (to be introduced in 2011)

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ENB275	Project Engineering 1
ENB276	Structural Engineering 1
ENB280	Hydraulic Engineering
UDB214	Professional Studies 2

Year 3 - Semester 1 (to be introduced in 2012)

ENB277	Construction Engineering Law
ENB375	Structural Engineering 2
ENB381	Civil Engineering Construction
UDB312	Contract Administration

Year 3 - Semester 2 (to be introduced in 2012)

ENB371	Geotechnical Engineering 2
ENB373	Design and Construction of Steel Structures
ENB382	Estimating in Engineering Construction Second Major/Minor unit

Year 4 - Semester 1 (to be introduced in 2013)

BEB801	Project 1
ENB471	Design of Concrete Structures and Foundations Second Major/Minor unit Second Major/Minor unit

Year 4 - Semester 2 (to be introduced in 2013)

BEB701	Work Integrated Learning 1
ENB481	Civil Engineering Project Management Second Major/Minor unit Selective

Civil and Construction Engineering Selectives

BEB802	Project 2
ENB376	Transport Engineering

Full-time Course structure – Students commencing Mid-Year 2010 (Years 2 – 5)

Please Note:

For 1st year enrolment program please refer to EN40 Bachelor of Engineering course entry.

Year 2 - Semester 1 (to be introduced in 2011)

ENB270	Engineering Mechanics of Materials
ENB272	Geotechnical Engineering 1
ENB273	Civil Materials
MAB233	Engineering Mathematics 3

Year 2 - Semester 2 (to be introduced in 2011)

ENB150	Introducing Engineering Design
ENB200	Introducing Engineering Systems
ENB276	Structural Engineering 1
UDB214	Professional Studies 2

Year 3 - Semester 1 (to be introduced in 2012)

ENB277	Construction Engineering Law
ENB375	Structural Engineering 2
ENB381	Civil Engineering Construction
UDB312	Contract Administration

Year 3 - Semester 2 (to be introduced in 2012)

ENB275	Project Engineering 1
ENB280	Hydraulic Engineering
ENB371	Geotechnical Engineering 2
ENB382	Estimating in Engineering Construction

Year 4 - Semester 1 (to be introduced in 2013)

ENB471	Design of Concrete Structures and Foundations Second Major/Minor unit Second Major/Minor unit
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Year 4 - Semester 2 (to be introduced in 2013)

BEB801	Project 1
ENB373	Design and Construction of Steel Structures
ENB481	Civil Engineering Project Management Second Major/Minor unit

Year 5 - Semester 1 (to be introduced in 2014)

BEB701	Work Integrated Learning 1 Second Major/Minor unit Selective
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Civil and Construction Engineering Selectives

BEB802	Project 2
ENB376	Transport Engineering

Full-time Course structure - Commencing February 2009

Year 1 - Semester 1

BEB100	Introducing Professional Learning
ENB101	Engineering Mechanics 1
ENB104	Engineering Materials
MAB131	Engineering Mathematics 1A OR
MAB180	Engineering Mathematics 1B

Year 1 - Semester 2

BEB200	Introducing Sustainability
ENB102	Engineering Mechanics 2
ENB103	Electrical Engineering
MAB132	Engineering Mathematics 2A OR
MAB182	Engineering Mathematics 2B

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

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

ENB275	Project Engineering 1
ENB276	Structural Engineering 1
ENB371	Geotechnical Engineering 2
UDB214	Professional Studies 2

Year 3 - Semester 1

ENB277	Construction Engineering Law
ENB375	Structural Engineering 2
ENB381	Civil Engineering Construction
UDB312	Contract Administration

Year 3 - Semester 2

ENB373	Design and Construction of Steel Structures
ENB382	Estimating in Engineering Construction
	Second Major/Minor unit
	Second Major/Minor unit

Year 4 - Semester 1

BEB801	Project 1
ENB471	Design of Concrete Structures and Foundations
UDB313	Programming and Scheduling
	Second Major/Minor unit

Year 4 - Semester 2

BEB701	Work Integrated Learning 1
	Applications Minor Selective
	Applications Minor Selective
	Second Major/Minor unit

Applications Minor Selectives

Semester 2:

BEB802	Project 2
ENB476	Civil Engineering Design Project
ENB481	Civil Engineering Project Management

Full-time Course structure - Commencing February 2006 - 2008

Year 1 - Semester 1

BEB100	Introducing Professional Learning
ENB101	Engineering Mechanics 1
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B

UDB110	Residential Construction and Engineering
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Year 1 - Semester 2

BEB200	Introducing Sustainability
ENB102	Engineering Mechanics 2
ENB104	Engineering Materials
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B

Year 2 - Semester 1

ENB272	Geotechnical Engineering 1
ENB273	Civil Materials
MAB233	Engineering Mathematics 3
UDB312	Contract Administration

Year 2 - Semester 2

ENB103	Electrical Engineering
ENB275	Project Engineering 1
ENB276	Structural Engineering 1
UDB214	Professional Studies 2

Year 3 - Semester 1

ENB277	Construction Engineering Law
ENB375	Structural Engineering 2
ENB381	Civil Engineering Construction
UDB313	Programming and Scheduling

Year 3 - Semester 2

ENB371	Geotechnical Engineering 2
ENB373	Design and Construction of Steel Structures
ENB382	Estimating in Engineering Construction
	Second Major/Minor unit

Year 4 - Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
ENB471	Design of Concrete Structures and Foundations
	Second Major/Minor unit

Year 4 - Semester 2

	Applications Minor Selective
	Applications Minor Selective
	Second Major/Minor unit
	Second Major/Minor unit

Applications Minor Selectives

Semester 2:

BEB802	Project 2
ENB476	Civil Engineering Design Project
ENB481	Civil Engineering Project Management

**Course Structure - Civil Infrastructure 2nd major
(commencing 2006-8)**

Year 1, Semester 1

BEB100	Introducing Professional Learning
ENB101	Engineering Mechanics 1
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B
UDB110	Residential Construction and Engineering

Year 1, Semester 2

BEB200	Introducing Sustainability
ENB102	Engineering Mechanics 2
ENB104	Engineering Materials
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B

Year 2, Semester 1

ENB272	Geotechnical Engineering 1
ENB273	Civil Materials
MAB233	Engineering Mathematics 3
UDB312	Contract Administration

Year 2, Semester 2

ENB103	Electrical Engineering
ENB275	Project Engineering 1
ENB276	Structural Engineering 1
UDB214	Professional Studies 2

Year 3, Semester 1

ENB277	Construction Engineering Law
ENB375	Structural Engineering 2
ENB381	Civil Engineering Construction
UDB313	Programming and Scheduling

Year 3, Semester 2

ENB201	Fluid Mechanics
ENB371	Geotechnical Engineering 2
ENB373	Design and Construction of Steel Structures
ENB382	Estimating in Engineering Construction

Year 4, Semester 1

BEB701	Work Integrated Learning 1
ENB372	Design and Planning of Highways
ENB378	Water Engineering
ENB471	Design of Concrete Structures and Foundations

Year 4, Semester 2

BEB801	Project 1
ENB376	Transport Engineering
	2nd Major Selective
	2nd Major Selective

2nd Major Selectives

	Semester 1:
DAB110	Architectural Design 1
ENB473	Design and Construction of Multi-storey Buildings
ENB475	Structural Engineering 3
ENB485	Advanced Geotechnical Engineering Practice
	Semester 2:
BEB802	Project 2
DAB210	Architectural Design 2
ENB377	Water and Waste Water Treatment Engineering
ENB474	Finite Element Methods
ENB476	Civil Engineering Design Project
ENB481	Civil Engineering Project Management

**Course structure - Structural Engineering 2nd major
(commencing 2006)**

Year 1, Semester 1

BEB100	Introducing Professional Learning
ENB101	Engineering Mechanics 1
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B
UDB110	Residential Construction and Engineering

Year 1, Semester 2

BEB200	Introducing Sustainability
ENB102	Engineering Mechanics 2
ENB104	Engineering Materials
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B

Year 2, Semester 1

ENB272	Geotechnical Engineering 1
ENB273	Civil Materials
MAB233	Engineering Mathematics 3
UDB312	Contract Administration

Year 2, Semester 2

ENB103	Electrical Engineering
ENB275	Project Engineering 1
ENB276	Structural Engineering 1
UDB214	Professional Studies 2

Year 3, Semester 1

ENB277	Construction Engineering Law
ENB375	Structural Engineering 2
ENB381	Civil Engineering Construction
UDB313	Programming and Scheduling

Year 3, Semester 2

BEB701	Work Integrated Learning 1
ENB371	Geotechnical Engineering 2
ENB373	Design and Construction of Steel Structures
ENB382	Estimating in Engineering Construction

Year 4, Semester 1

BEB801	Project 1
ENB471	Design of Concrete Structures and Foundations
ENB475	Structural Engineering 3 Second Major Selective

Year 4, Semester 2

Second Major Selective
Second Major Selective
Second Major Selective
Second Major Selective

Second Major Selectives

Semester 1:

DAB110	Architectural Design 1
ENB485	Advanced Geotechnical Engineering Practice
ENB473	Design and Construction of Multi-storey Buildings

Semester 2:

BEB802	Project 2
DAB210	Architectural Design 2
ENB474	Finite Element Methods
ENB476	Civil Engineering Design Project
ENB481	Civil Engineering Project Management

Potential Careers:

Civil Engineer, Construction Manager, Engineer, Project Manager.

Bachelor of Engineering (Civil and Environmental) (EN40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056529D

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$12,125 (indicative) per semester

Domestic Entry: February and July

International Entry: February and July

QTAC code: 412502

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Dr R.Mahalinga-Iyer

Discipline coordinator: Fraser McGregor

Campus: Gardens Point

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 (for students commencing 2010 onwards)

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.

Minors (for students commencing prior to 2010)

You will have the opportunity to undertake two 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 civil engineering

units. The second minor must be taken from an approved list outside your discipline.

Please refer to the rules at the following location before making your selection:

<http://www.bee.qut.edu.au/study/current/2majormin/>

Professional Recognition

Full professional accreditation from Engineers Australia has been given for this course.

Further Information

School of Urban Development - Phone +61 7 3138 2678, Fax +61 7 3138 1515, email: bee.enquiries@qut.com

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 part of the Work Integrated Learning unit.

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).

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Full-time Course structure – Students commencing February 2010 onwards (Years 2 – 4)

Please Note:

For 1st year enrolment program please refer to EN40 Bachelor of Engineering course entry.

Year 2 - Semester 1 (to be introduced in 2011)

ENB270	Engineering Mechanics of Materials
ENB272	Geotechnical Engineering 1
ENB273	Civil Materials
MAB233	Engineering Mathematics 3

Year 2 - Semester 2 (to be introduced in 2011)

ENB274	Design of Environmentally Sustainable Systems
ENB275	Project Engineering 1
ENB276	Structural Engineering 1
ENB280	Hydraulic Engineering

Year 3 - Semester 1 (to be introduced in 2012)

ENB372	Design and Planning of Highways
ENB378	Water Engineering
ENB383	Environmental Resource Management

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

NQB302 Earth Surface Systems
OR

NQB314 Sedimentary Geology

Year 3 - Semester 2 (to be introduced in 2012)

ENB371 Geotechnical Engineering 2

ENB376 Transport Engineering

ENB380 Environmental Law and Assessment
Selective

Year 4 - Semester 1 (to be introduced in 2013)

BEB801 Project 1

PQB360 Global Energy Balance and Climate Change

UDB266 Planning Processes and Consultations
Selective

Year 4 - Semester 2 (to be introduced in 2013)

BEB701 Work Integrated Learning 1

ENB377 Water and Waste Water Treatment
Engineering

NQB403 Soils and the Environment
OR

NQB614 Groundwater Systems

NQB601 Sustainable Environmental Management

Civil and Environmental Engineering Selectives

ENB375 Structural Engineering 2

ENB471 Design of Concrete Structures and
Foundations

ENB474 Finite Element Methods

BEB802 Project 2

ENB476 Civil Engineering Design Project

Full-time Course structure – Students commencing Mid-Year 2010 (Years 2 – 5)

Please Note:

For 1st year enrolment program please refer to EN40 Bachelor of Engineering course entry.

Year 2 - Semester 1 (to be introduced in 2011)

ENB270 Engineering Mechanics of Materials

ENB272 Geotechnical Engineering 1

ENB273 Civil Materials

Year 2 - Semester 2 (to be introduced in 2011)

ENB150 Introducing Engineering Design

ENB200 Introducing Engineering Systems

ENB274 Design of Environmentally Sustainable
Systems

ENB276 Structural Engineering 1

Year 3 - Semester 1 (to be introduced in 2012)

ENB372 Design and Planning of Highways

ENB383 Environmental Resource Management

MAB233 Engineering Mathematics 3

NQB302 Earth Surface Systems
OR

NQB314 Sedimentary Geology

Year 3 - Semester 2 (to be introduced in 2012)

ENB275 Project Engineering 1

ENB280 Hydraulic Engineering

ENB371 Geotechnical Engineering 2

ENB380 Environmental Law and Assessment

Year 4 - Semester 1 (to be introduced in 2013)

ENB378 Water Engineering

UDB266 Planning Processes and Consultations

PQB360 Global Energy Balance and Climate Change

Year 4 - Semester 2 (to be introduced in 2013)

ENB376 Transport Engineering

ENB377 Water and Waste Water Treatment
Engineering

NQB601 Sustainable Environmental Management

NQB403 Soils and the Environment
OR

NQB614 Groundwater Systems

Year 5 - Semester 1 (to be introduced in 2014)

BEB701 Work Integrated Learning 1

BEB801 Project 1

Selective

Civil and Environmental Engineering Selectives

BEB802 Project 2

ENB375 Structural Engineering 2

ENB471 Design of Concrete Structures and
Foundations

ENB474 Finite Element Methods

ENB476 Civil Engineering Design Project

Full-time Course structure - Commencing February 2008 & 2009

Year 1 - Semester 1

BEB100 Introducing Professional Learning

ENB101 Engineering Mechanics 1

ENB104 Engineering Materials

MAB131 Engineering Mathematics 1A
OR

MAB180 Engineering Mathematics 1B

Year 1 - Semester 2

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

BEB200 Introducing Sustainability
 ENB102 Engineering Mechanics 2
 ENB103 Electrical Engineering
 MAB132 Engineering Mathematics 2A
 OR
 MAB182 Engineering Mathematics 2B

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
 ENB383 Environmental Resource Management
 Second Major/Minor Unit

Year 3 - Semester 2

ENB371 Geotechnical Engineering 2
 ENB376 Transport Engineering
 ENB380 Environmental Law and Assessment
 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

Full-time Course structure - Commencing February 2006 & 2007

Year 1 - Semester 1

BEB100 Introducing Professional Learning
 ENB101 Engineering Mechanics 1
 ENB104 Engineering Materials
 MAB131 Engineering Mathematics 1A
 OR
 MAB180 Engineering Mathematics 1B

Year 1 - Semester 2

BEB200 Introducing Sustainability
 ENB102 Engineering Mechanics 2
 ENB103 Electrical Engineering
 MAB132 Engineering Mathematics 2A
 OR
 MAB182 Engineering Mathematics 2B

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
 ENB383 Environmental Resource Management
 Second Major/Minor unit

Year 3 - Semester 2

ENB371 Geotechnical Engineering 2
 ENB377 Water and Waste Water Treatment Engineering
 ENB380 Environmental Law and Assessment
 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

Applications Minor Selective

Applications Minor Selective

Second Major/Minor unit

Second Major/Minor unit

Application 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

Potential Careers:

Civil Engineer, Engineer, Environmental Engineer.

Bachelor of Engineering (Civil) (EN40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056529D

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$12,250 (indicative) per semester

Domestic Entry: February and July

International Entry: February and July

QTAC code: 412502

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Dr R.Mahalinga-Iyer

Discipline coordinator: Fraser McGregor

Campus: Gardens Point

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.

Second Majors and Minors

You will have the opportunity to undertake either a 2nd major or two 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 civil engineering units. The second minor must be taken from an approved list outside your discipline.

Please refer to the rules at the following location before making your selection:

<http://www.bee.qut.edu.au/study/current/2majormin/> .

CIVIL ENGINEERING Second Major and Minor Options

Second Major:

Structural Engineering

Transport Engineering and Planning

Minors:

BEE Applications Minor

plus

A minor from anywhere in QUT that is outside of the course.

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 part of the Work Integrated Learning unit.

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

School of Urban Development - Phone +61 7 3138 2678, Fax +61 7 3138 1515, email: bee.enquiries@qut.com

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Full-time Course structure – Students commencing February 2010 onwards (Years 2 – 4)

Please Note:

For 1st year enrolment program please refer to EN40 Bachelor of Engineering course entry.

Year 2 - Semester 1 (to be introduced in 2011)

ENB270	Engineering Mechanics of Materials
ENB272	Geotechnical Engineering 1
ENB273	Civil Materials
MAB233	Engineering Mathematics 3

Year 2 - Semester 2 (to be introduced in 2011)

ENB274	Design of Environmentally Sustainable Systems
ENB275	Project Engineering 1
ENB276	Structural Engineering 1
ENB280	Hydraulic Engineering

Year 3 - Semester 1 (to be introduced in 2012)

ENB372	Design and Planning of Highways
ENB375	Structural Engineering 2
ENB378	Water Engineering
	Second Major/Minor unit

Year 3 - Semester 2 (to be introduced in 2012)

ENB371	Geotechnical Engineering 2
ENB376	Transport Engineering
ENB377	Water and Waste Water Treatment Engineering
	Second Major/Minor unit

Year 4 - Semester 1 (to be introduced in 2013)

BEB701	Work Integrated Learning 1
BEB801	Project 1
ENB471	Design of Concrete Structures and Foundations
	Second Major/Minor unit

Year 4 - Semester 2 (to be introduced in 2013)

ENB472	Project Engineering 2
ENB476	Civil Engineering Design Project
	Second Major/Minor unit
	Selective

Civil Engineering Selectives

BEB802	Project 2
ENB373	Design and Construction of Steel Structures
ENB379	Transport Engineering and Planning Applications
ENB380	Environmental Law and Assessment
ENB383	Environmental Resource Management
ENB384	Design of Masonry Structures
ENB473	Design and Construction of Multi-storey Buildings
ENB474	Finite Element Methods
ENB475	Structural Engineering 3
ENB478	Advanced Water Engineering
ENB481	Civil Engineering Project Management
ENB485	Advanced Geotechnical Engineering Practice

Full-time Course structure – Students commencing Mid-Year 2010 (Years 2 – 5)

Please Note:

For 1st year enrolment program please refer to EN40 Bachelor of Engineering course entry.

Year 2 - Semester 1 (to be introduced in 2011)

ENB270	Engineering Mechanics of Materials
ENB272	Geotechnical Engineering 1
ENB273	Civil Materials

Year 2 - Semester 2 (to be introduced in 2011)

ENB150	Introducing Engineering Design
ENB200	Introducing Engineering Systems
ENB274	Design of Environmentally Sustainable Systems
ENB276	Structural Engineering 1

Year 3 - Semester 1 (to be introduced in 2012)

ENB375	Structural Engineering 2
ENB372	Design and Planning of Highways
MAB233	Engineering Mathematics 3

Year 3 - Semester 2 (to be introduced in 2012)

ENB275	Project Engineering 1
ENB280	Hydraulic Engineering
ENB371	Geotechnical Engineering 2
ENB376	Transport Engineering

Year 4 - Semester 1 (to be introduced in 2013)

ENB378	Water Engineering
ENB471	Design of Concrete Structures and Foundations
	Second Major/Minor unit
	Second Major/Minor unit

Year 4 - Semester 2 (to be introduced in 2013)

ENB377	Water and Waste Water Treatment Engineering
ENB472	Project Engineering 2
ENB476	Civil Engineering Design Project
	Second Major/Minor unit

Year 5 - Semester 1 (to be introduced in 2014)

BEB701	Work Integrated Learning 1
BEB801	Project 1
	Selective
	Second Major/Minor unit

Civil Engineering Selectives

BEB802	Project 2
ENB373	Design and Construction of Steel Structures
ENB379	Transport Engineering and Planning Applications
ENB380	Environmental Law and Assessment
ENB383	Environmental Resource Management
ENB384	Design of Masonry Structures
ENB473	Design and Construction of Multi-storey Buildings
ENB474	Finite Element Methods
ENB475	Structural Engineering 3
ENB478	Advanced Water Engineering
ENB481	Civil Engineering Project Management

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ENB485 Advanced Geotechnical Engineering Practice

Full-time Course structure - Commencing February 2006 - 2009

Year 1 - Semester 1

BEB100 Introducing Professional Learning
 ENB101 Engineering Mechanics 1
 ENB104 Engineering Materials
 MAB131 Engineering Mathematics 1A
 OR
 MAB180 Engineering Mathematics 1B

Year 1 - Semester 2

BEB200 Introducing Sustainability
 ENB102 Engineering Mechanics 2
 ENB103 Electrical Engineering
 MAB132 Engineering Mathematics 2A
 OR
 MAB182 Engineering Mathematics 2B

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
 ENB375 Structural Engineering 2
 ENB378 Water Engineering
 Second Major/Minor unit

Year 3 - Semester 2

ENB371 Geotechnical Engineering 2
 ENB376 Transport Engineering
 ENB377 Water and Waste Water Treatment Engineering
 Second Major/Minor unit

Year 4 - Semester 1

BEB701 Work Integrated Learning 1
 BEB801 Project 1
 ENB471 Design of Concrete Structures and Foundations
 Applications Minor Selective

Year 4 - Semester 2

ENB472 Project Engineering 2
 Applications Minor Selective
 Second Major/Minor unit
 Second Major/Minor unit

Applications Minor Selectives

Semester 1:
 ENB379 Transport Engineering and Planning Applications
 ENB383 Environmental Resource Management
 ENB384 Design of Masonry Structures
 ENB473 Design and Construction of Multi-storey Buildings
 ENB475 Structural Engineering 3
 ENB478 Advanced Water Engineering
 ENB485 Advanced Geotechnical Engineering Practice
 Semester 2:
 BEB802 Project 2
 ENB373 Design and Construction of Steel Structures
 ENB380 Environmental Law and Assessment
 ENB474 Finite Element Methods
 ENB476 Civil Engineering Design Project
 ENB481 Civil Engineering Project Management

Full-time Course structure - Commencing Mid-Year 2006 - 2008

Year 1 - Semester 2

BEB200 Introducing Sustainability
 ENB101 Engineering Mechanics 1
 ENB103 Electrical Engineering
 MAB131 Engineering Mathematics 1A
 OR
 MAB180 Engineering Mathematics 1B

Year 1 - Summer

ENB102 Engineering Mechanics 2
 MAB182 Engineering Mathematics 2B

Year 2 - Semester 1

BEB100 Introducing Professional Learning
 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

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ENB275 Project Engineering 1
 ENB276 Structural Engineering 1

Year 3 - Semester 1

ENB372 Design and Planning of Highways
 ENB375 Structural Engineering 2
 ENB378 Water Engineering
 Second Major/Minor unit

Year 3 - Semester 2

ENB371 Geotechnical Engineering 2
 ENB376 Transport Engineering
 ENB377 Water and Waste Water Treatment Engineering
 Second Major/Minor unit

Year 4 - Semester 1

BEB701 Work Integrated Learning 1
 BEB801 Project 1
 ENB471 Design of Concrete Structures and Foundations
 Applications Minor Selective

Year 4 - Semester 2

ENB472 Project Engineering 2
 Applications Minor Selective
 Second Major/Minor unit
 Second Major/Minor unit

Applications Minor Selectives

Semester 1:

ENB379 Transport Engineering and Planning Applications
 ENB383 Environmental Resource Management
 ENB475 Structural Engineering 3
 ENB478 Advanced Water Engineering
 ENB485 Advanced Geotechnical Engineering Practice

Semester 2:

BEB802 Project 2
 ENB373 Design and Construction of Steel Structures
 ENB380 Environmental Law and Assessment
 ENB473 Design and Construction of Multi-storey Buildings
 ENB474 Finite Element Methods
 ENB476 Civil Engineering Design Project
 ENB481 Civil Engineering Project Management

Course Structure - Structural Engineering 2nd major (commencing 2007-9)

Year 1, Semester 1

BEB100 Introducing Professional Learning

ENB101 Engineering Mechanics 1
 ENB104 Engineering Materials
 MAB131 Engineering Mathematics 1A
 OR
 MAB180 Engineering Mathematics 1B

Year 1, Semester 2

BEB200 Introducing Sustainability
 ENB102 Engineering Mechanics 2
 ENB103 Electrical Engineering
 MAB132 Engineering Mathematics 2A
 OR
 MAB182 Engineering Mathematics 2B

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
 ENB375 Structural Engineering 2
 ENB378 Water Engineering
 ENB384 Design of Masonry Structures

Year 3, Semester 2

ENB371 Geotechnical Engineering 2
 ENB373 Design and Construction of Steel Structures
 ENB376 Transport Engineering
 ENB377 Water and Waste Water Treatment Engineering

Year 4, Semester 1

BEB801 Project 1
 ENB471 Design of Concrete Structures and Foundations
 ENB475 Structural Engineering 3
 Second Major Selective

Year 4, Semester 2

BEB701 Work Integrated Learning 1
 ENB472 Project Engineering 2
 ENB474 Finite Element Methods
 Second Major Selective

Second Major Selectives

Semester 1:

- DAB110 Architectural Design 1
- ENB473 Design and Construction of Multi-storey Buildings
- ENB485 Advanced Geotechnical Engineering Practice

Semester 2:

- BEB802 Project 2
- DAB210 Architectural Design 2
- ENB476 Civil Engineering Design Project
- ENB481 Civil Engineering Project Management

Course Structure - Structural Engineering 2nd major (commencing 2006)

Year 1, Semester 1

- BEB100 Introducing Professional Learning
- ENB101 Engineering Mechanics 1
- ENB104 Engineering Materials
- MAB131 Engineering Mathematics 1A
OR
- MAB180 Engineering Mathematics 1B

Year 1, Semester 2

- BEB200 Introducing Sustainability
- ENB102 Engineering Mechanics 2
- ENB103 Electrical Engineering
- MAB132 Engineering Mathematics 2A
OR
- MAB182 Engineering Mathematics 2B

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

- BEB701 Work Integrated Learning 1
- ENB372 Design and Planning of Highways
- ENB375 Structural Engineering 2
- ENB378 Water Engineering

Year 3, Semester 2

- ENB371 Geotechnical Engineering 2
- ENB373 Design and Construction of Steel Structures
- ENB376 Transport Engineering
- ENB377 Water and Waste Water Treatment Engineering

Year 4, Semester 1

- BEB801 Project 1
- ENB471 Design of Concrete Structures and Foundations
- ENB475 Structural Engineering 3
Second Major Selective

Year 4, Semester 2

- ENB472 Project Engineering 2
Second Major Selective
Second Major Selective
Second Major Selective

Second Major Selectives

Semester 1:

- DAB110 Architectural Design 1
- ENB384 Design of Masonry Structures
- ENB473 Design and Construction of Multi-storey Buildings
- ENB485 Advanced Geotechnical Engineering Practice

Semester 2:

- BEB802 Project 2
- DAB210 Architectural Design 2
- ENB474 Finite Element Methods
- ENB476 Civil Engineering Design Project
- ENB481 Civil Engineering Project Management

Course Structure - Transport Engineering and Planning 2nd major (commencing 2010 onwards)

Year 1, Semester 1

- ENB100 Engineering and Sustainability
- ENB110 Engineering Statics and Materials
- ENB130 Mechanical and Thermal Energy
- MAB125 Foundations of Engineering Mathematics
OR
- MAB126 Mathematics for Engineering 1

Year 1, Semester 2

- ENB120 Electrical Energy and Measurements
- ENB150 Introducing Engineering Design
- ENB200 Introducing Engineering Systems
- MAB126 Mathematics for Engineering 1
OR
- MAB127 Mathematics for Engineering 2

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Year 2, Semester 1

ENB270	Engineering Mechanics of Materials
ENB272	Geotechnical Engineering 1
ENB273	Civil Materials
MAB233	Engineering Mathematics 3

Year 2, Semester 2

ENB274	Design of Environmentally Sustainable Systems
ENB275	Project Engineering 1
ENB276	Structural Engineering 1
ENB280	Hydraulic Engineering

Year 3, Semester 1

ENB372	Design and Planning of Highways
ENB375	Structural Engineering 2
ENB378	Water Engineering
UDB266	Planning Processes and Consultations

Year 3, Semester 2

ENB371	Geotechnical Engineering 2
ENB376	Transport Engineering
ENB377	Water and Waste Water Treatment Engineering
UDB104	Urban Development Economics

Year 4, Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
ENB379	Transport Engineering and Planning Applications
ENB471	Design of Concrete Structures and Foundations

Year 4, Semester 2

ENB472	Project Engineering 2
UDB267	Development Assessment and Infrastructure
UDB370	Environmental Planning and Management Second Major Selective

Second Major Selectives

Semester 2:

BEB802	Project 2
ENB476	Civil Engineering Design Project

Course Structure - Transport Engineering and Planning 2nd major (commencing 2006-9)

Year 1, Semester 1

BEB100	Introducing Professional Learning
ENB101	Engineering Mechanics 1
ENB104	Engineering Materials
MAB131	Engineering Mathematics 1A

OR

MAB180	Engineering Mathematics 1B
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Year 1, Semester 2

BEB200	Introducing Sustainability
ENB102	Engineering Mechanics 2
ENB103	Electrical Engineering
MAB132	Engineering Mathematics 2A

OR

MAB182	Engineering Mathematics 2B
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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
ENB375	Structural Engineering 2
ENB378	Water Engineering
UDB266	Planning Processes and Consultations

Year 3, Semester 2

ENB371	Geotechnical Engineering 2
ENB376	Transport Engineering
ENB377	Water and Waste Water Treatment Engineering
UDB104	Urban Development Economics

Year 4, Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
ENB379	Transport Engineering and Planning Applications
ENB471	Design of Concrete Structures and Foundations

Year 4, Semester 2

ENB472	Project Engineering 2
UDB267	Development Assessment and Infrastructure
UDB370	Environmental Planning and Management Second Major Selective

Second Major Selectives

Semester 2:

BEB802 Project 2

ENB476 Civil Engineering Design Project

Potential Careers:

Civil Engineer, Engineer, Environmental Engineer.

Bachelor of Engineering (Computer Systems) (EN40)

Year offered: 2011

Admissions: No

CRICOS code: 056529D

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$12,000 (indicative) per semester

Domestic Entry: This course is only taught to continuing students only.

International Entry: This course is only taught to continuing students only.

QTAC code: 412502

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Dr R.Mahalinga-lyer

Discipline coordinator: Dr Jasmine Banks

Campus: Gardens Point

Discontinuation

From Semester 1 2010, this primary major has been discontinued. A second major in this discipline is currently under development.

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.

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.

Special Course Requirements

Students must complete at least 60 days industrial experience as part of the Work Integrated Learning unit in

order to graduate.

Further Information

School of Engineering Systems - Phone +61 7 3138 1993, Fax +61 7 3138 1516, email: bee.enquiries@qut.com

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).

Full-time Course structure - Commencing February 2009

Year 1 - Semester 1

BEB100	Introducing Professional Learning
ENB101	Engineering Mechanics 1
ENB104	Engineering Materials
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B

Year 1 - Semester 2

BEB200	Introducing Sustainability
ENB103	Electrical Engineering
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B
PCB136	Engineering Physics 1C

Year 2 - Semester 1

ENB240	Introduction To Electronics
ENB242	Introduction To Telecommunications
INB104	Building IT Systems
MAB233	Engineering Mathematics 3

Year 2 - Semester 2

ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice
INB270	Programming

Year 3 - Semester 1

ENB301	Instrumentation and Control
ENB342	Signals, Systems and Transforms
ENB350	Real-time Computer-based Systems
INB371	Data Structures and Algorithms

Year 3 - Semester 2

ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications

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ENB352	Communication Environments For Embedded Systems
INB251	Networks

Year 4 - Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
ENB441	Applied Image Processing Applications Minor Selective

Year 4 - Semester 2

BEB802	Project 2
ENB448	Signal Processing and Filtering
ENB458	Modern Control Systems
INB365	Systems Programming

Applications Minor Selectives

Semester 1:

INB340	Database Design
INB355	Cryptology and Protocols
INB373	Web Application Development
INB381	Modelling and Animation Techniques

Semester 2:

INB272	Interaction Design
INB374	Enterprise Software Architecture
INB382	Real Time Rendering Techniques

Full-time Course structure - Commencing February 2006 - 2008

Year 1 - Semester 1

BEB100	Introducing Professional Learning
MAB131	Engineering Mathematics 1A OR
MAB180	Engineering Mathematics 1B
PCB136	Engineering Physics 1C
INB104	Building IT Systems OR (prior to 2009)
ITB001	Problem Solving and Programming

Year 1 - Semester 1

BEB200	Introducing Sustainability
ENB103	Electrical Engineering
MAB132	Engineering Mathematics 2A OR
MAB182	Engineering Mathematics 2B
INB270	Programming OR (prior to 2009)
ITB003	Object Oriented Programming

Year 2 - Semester 1

ENB240	Introduction To Electronics
ENB242	Introduction To Telecommunications
MAB233	Engineering Mathematics 3 OR (prior to 2009)
INB371	Data Structures and Algorithms
ITB711	Programming Abstraction

Year 2 - Semester 2

ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice
INB251	Networks OR (prior to 2009)
ITB006	Networks

Year 3 - Semester 1

ENB301	Instrumentation and Control
ENB342	Signals, Systems and Transforms
ENB350	Real-time Computer-based Systems IT Elective 1

Year 3 - Semester 2

ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications
ENB352	Communication Environments For Embedded Systems
INB365	Systems Programming

Year 4 - Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
ENB441	Applied Image Processing IT Elective 2

Year 4 - Semester 2

BEB802	Project 2
ENB448	Signal Processing and Filtering
ENB458	Modern Control Systems IT Elective 3

IT Electives

	IT Elective 1
	Any level 2 IT unit (INB200 level) approved by the Subject Area Coordinator.
	IT Elective 2
INB350	Internet Protocols and Services
INB353	Wireless and Mobile Networks
INB370	Software Development
INB381	Modelling and Animation Techniques IT Elective 3

- INB351 Unix Network Administration
- INB352 Network Planning
- INB355 Cryptology and Protocols
- INB372 Agile Software Development
- INB382 Real Time Rendering Techniques

Please note: Appropriate prerequisite for IT
Elective 3 must be completed as IT Elective 2.

Potential Careers:

Computer Systems Engineer, Electrical and Computer
Engineer, Engineer, Systems Programmer.

Bachelor of Engineering (Mechanical) (EN40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056529D

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$12,250 (indicative) per semester

Domestic Entry: February and July

International Entry: February and July

QTAC code: 412502

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

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

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.

Second Major and Minors

You will have the opportunity to undertaken either a 2nd major or two 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 civil engineering units. The second minor must be taken from an approved list outside your discipline.

Please refer to the rules at the following location before making your selection:

<http://www.bee.qut.edu.au/study/current/2majormin/> .

MECHANICAL ENGINEERING Second Major and Minor Options

Second Major:

Motor Racing Engineering (previously Automotive Engineering)

Engineering Management

Heavy Mechanical Engineering

Minors:

BEE Applications Minor

plus

A minor from anywhere in QUT that is outside of the course.

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 as part of the Work Integrated Learning unit.

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

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Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Full-time Course structure – Students commencing February 2010 onwards (Years 2 – 4)

Please Note:

For 1st year enrolment program please refer to EN40 Bachelor of Engineering course entry.

Year 2 - Semester 1 (to be introduced in 2011)

ENB211	Dynamics
ENB212	Strength of Materials
ENB231	Materials and Manufacturing 1
MAB127	Mathematics for Engineering 2
	OR
MAB233	Engineering Mathematics 3

Year 2 - Semester 2 (to be introduced in 2011)

ENB205	Electrical and Computer Engineering
ENB215	Fundamentals of Mechanical Design
ENB221	Fluid Mechanics
ENB331	Materials and Manufacturing 2

Please note:

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

Year 3 - Semester 1 (to be introduced in 2012)

ENB222	Thermodynamics 1
ENB311	Stress Analysis
ENB312	Dynamics of Machinery
ENB316	Design of Machine Elements

Year 3 - Semester 2 (to be introduced in 2012)

ENB313	Automatic Control
ENB317	Design and Maintenance of Machinery
ENB321	Fluids Dynamics
MAB233	Engineering Mathematics 3
	OR
	Selective

Year 4 - Semester 1 (to be introduced in 2013)

BEB801	Project 1
ENB421	Thermodynamics 2
	Second Major/Minor unit
	Second Major/Minor unit

Year 4 - Semester 2 (to be introduced in 2013)

BEB701	Work Integrated Learning 1
BEB802	Project 2
	Second Major/Minor unit
	Second Major/Minor unit

Mechanical Engineering Selectives

ENB314	Industrial Noise and Vibration
ENB333	Operations Management
ENB336	Industrial Engineering
ENB339	Introduction to Robotics
ENB422	Energy Management
ENB423	Heating, Ventilation and Air-Conditioning
ENB432	Engineering Asset Management and Maintenance
ENB433	Plant and Process Design
ENB434	Tribology
ENB435	Computer Integrated Manufacturing

Full-time Course structure – Students commencing Mid-

Year 2010 (Years 2 – 5)

Please Note:

For 1st year enrolment program please refer to EN40 Bachelor of Engineering course entry.

Year 2 - Semester 1 (to be introduced in 2011)

ENB211	Dynamics
ENB212	Strength of Materials
	OR
MAB127	Mathematics for Engineering 2
MAB233	Engineering Mathematics 3

Year 2 - Semester 2 (to be introduced in 2011)

ENB150	Introducing Engineering Design
ENB200	Introducing Engineering Systems
ENB205	Electrical and Computer Engineering
ENB221	Fluid Mechanics

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.

Year 3 - Semester 1 (to be introduced in 2012)

ENB222	Thermodynamics 1
ENB231	Materials and Manufacturing 1
ENB311	Stress Analysis
MAB233	Engineering Mathematics 3
	OR
	Selective

Year 3 - Semester 2 (to be introduced in 2012)

ENB215	Fundamentals of Mechanical Design
ENB321	Fluids Dynamics
ENB331	Materials and Manufacturing 2
	Second Major/Minor unit

Year 4 - Semester 1 (to be introduced in 2013)

ENB312	Dynamics of Machinery
ENB316	Design of Machine Elements
ENB421	Thermodynamics 2

Year 4 - Semester 2 (to be introduced in 2013)

BEB801	Project 1
ENB313	Automatic Control
ENB317	Design and Maintenance of Machinery
	Second Major/Minor unit

Year 5 - Semester 1 (to be introduced in 2014)

BEB701	Work Integrated Learning 1
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FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

BEB802 Project 2
 Second Major/Minor unit
 Second Major/Minor unit

final 2 years. CEED program requires that you undertake units BEB701, BEB801 and BEB802 together in either Semester 1 or 2.

Mechanical Engineering Selectives

ENB314 Industrial Noise and Vibration
 ENB333 Operations Management
 ENB336 Industrial Engineering
 ENB339 Introduction to Robotics
 ENB422 Energy Management
 ENB423 Heating, Ventilation and Air-Conditioning
 ENB432 Engineering Asset Management and Maintenance
 ENB433 Plant and Process Design
 ENB434 Tribology
 ENB435 Computer Integrated Manufacturing

Full-time Course structure - Commencing February 2009

Year 1 - Semester 1

BEB100 Introducing Professional Learning
 ENB101 Engineering Mechanics 1
 ENB104 Engineering Materials
 MAB131 Engineering Mathematics 1A
 OR
 MAB180 Engineering Mathematics 1B

Year 1 - Semester 2

ENB102 Engineering Mechanics 2
 ENB103 Electrical Engineering
 MAB132 Engineering Mathematics 2A
 OR
 MAB182 Engineering Mathematics 2B
 PCB136 Engineering Physics 1C

Year 2 - Semester 1

ENB105 Electrical and Computer Engineering
 ENB211 Dynamics
 ENB231 Materials and Manufacturing 1
 MAB233 Engineering Mathematics 3

Year 2 - Semester 2

BEB200 Introducing Sustainability
 ENB201 Fluid Mechanics
 ENB215 Fundamentals of Mechanical Design
 ENB222 Thermodynamics 1

Please note:

Students wishing to undertake CEED based Industry Project should consult the Subject Area Coordinator to provide a program for the

Year 3 - Semester 1

ENB311 Stress Analysis
 ENB313 Automatic Control
 ENB316 Design of Machine Elements
 Second Major/Minor unit

Year 3 - Semester 2

ENB312 Dynamics of Machinery
 ENB317 Design and Maintenance of Machinery
 ENB321 Fluids Dynamics
 ENB331 Materials and Manufacturing 2

Year 4 - Semester 1

BEB801 Project 1
 ENB421 Thermodynamics 2
 Applications Minor Selective
 Second Major/Minor unit

Year 4 - Semester 2

BEB701 Work Integrated Learning 1
 BEB802 Project 2
 Second Major/Minor unit
 Second Major/Minor unit

Applications Minor Selectives

BSB115 Management
 ENB314 Industrial Noise and Vibration
 ENB333 Operations Management
 ENB336 Industrial Engineering
 ENB339 Introduction to Robotics
 ENB422 Energy Management
 ENB423 Heating, Ventilation and Air-Conditioning
 ENB432 Engineering Asset Management and Maintenance
 ENB433 Plant and Process Design
 ENB434 Tribology
 ENB435 Computer Integrated Manufacturing

Full-time Course structure - Commencing February 2006 - 2008

Year 1 - Semester 1

BEB100 Introducing Professional Learning
 ENB101 Engineering Mechanics 1
 MAB131 Engineering Mathematics 1A
 OR
 MAB180 Engineering Mathematics 1B
 PCB136 Engineering Physics 1C

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Year 1 - Semester 2

ENB102	Engineering Mechanics 2
ENB103	Electrical Engineering
ENB104	Engineering Materials
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B

Year 2 - Semester 1

ENB105	Electrical and Computer Engineering
ENB211	Dynamics
ENB231	Materials and Manufacturing 1
MAB233	Engineering Mathematics 3

Year 2 - Semester 2

BEB200	Introducing Sustainability
ENB201	Fluid Mechanics
ENB215	Fundamentals of Mechanical Design
ENB222	Thermodynamics 1

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.

Year 3 - Semester 1

ENB301	Instrumentation and Control
ENB311	Stress Analysis
ENB316	Design of Machine Elements
ENB331	Materials and Manufacturing 2

Year 3 - Semester 2

ENB312	Dynamics of Machinery
ENB317	Design and Maintenance of Machinery
ENB321	Fluids Dynamics
	Second Major/Minor unit

Year 4 - Semester 1

BEB801	Project 1
ENB421	Thermodynamics 2
	Applications Minor Selective
	Second Major/Minor unit

Year 4 - Semester 2

BEB701	Work Integrated Learning 1
BEB802	Project 2
	Second Major/Minor unit
	Second Major/Minor unit

Applications Minor Selectives

BSB115	Management
ENB333	Operations Management
ENB336	Industrial Engineering
ENB339	Introduction to Robotics
ENB422	Energy Management
ENB432	Engineering Asset Management and Maintenance
ENB435	Computer Integrated Manufacturing

Full-time Course structure - Commencing Mid-Year 2006 - 2008

Year 1 - Semester 2

ENB101	Engineering Mechanics 1
ENB103	Electrical Engineering
ENB104	Engineering Materials
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B
PCB136	Engineering Physics 1C

Year 1 - Summer

ENB102	Engineering Mechanics 2
MAB182	Engineering Mathematics 2B

Year 2 - Semester 1

BEB100	Introducing Professional Learning
ENB105	Electrical and Computer Engineering
ENB211	Dynamics
ENB231	Materials and Manufacturing 1
MAB233	Engineering Mathematics 3

Year 2 - Semester 2

BEB200	Introducing Sustainability
ENB201	Fluid Mechanics
ENB215	Fundamentals of Mechanical Design
ENB222	Thermodynamics 1

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.

Year 3 - Semester 1

ENB301	Instrumentation and Control
ENB311	Stress Analysis
ENB316	Design of Machine Elements
ENB331	Materials and Manufacturing 2

Year 3 - Semester 2

ENB312	Dynamics of Machinery
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ENB317 Design and Maintenance of Machinery

ENB321 Fluids Dynamics
Second Major/Minor unit

Year 4 - Semester 1

BEB801 Project 1
ENB421 Thermodynamics 2
Applications Minor Selective
Second Major/Minor unit

Year 4 - Semester 2

BEB701 Work Integrated Learning 1
BEB802 Project 2
Second Major/Minor unit
Second Major/Minor unit

Applications Minor Selectives

BSB115 Management
ENB333 Operations Management
ENB336 Industrial Engineering
ENB339 Introduction to Robotics
ENB422 Energy Management
ENB432 Engineering Asset Management and Maintenance
ENB435 Computer Integrated Manufacturing

Course structure - Motor Racing Engineering 2nd major (commencing 2010 onwards)

Year 1 - Semester 1

ENB100 Engineering and Sustainability
ENB110 Engineering Statics and Materials
ENB130 Mechanical and Thermal Energy
MAB125 Foundations of Engineering Mathematics
OR
MAB126 Mathematics for Engineering 1

Year 1 - Semester 2

ENB120 Electrical Energy and Measurements
ENB150 Introducing Engineering Design
ENB200 Introducing Engineering Systems
MAB126 Mathematics for Engineering 1
OR
MAB127 Mathematics for Engineering 2

Year 2 - Semester 1 (to be introduced in 2011)

ENB211 Dynamics
ENB212 Strength of Materials
ENB231 Materials and Manufacturing 1
MAB127 Mathematics for Engineering 2
OR

MAB233 Engineering Mathematics 3

Year 2 - Semester 2 (to be introduced in 2011)

ENB205 Electrical and Computer Engineering
ENB215 Fundamentals of Mechanical Design
ENB221 Fluid Mechanics
ENB331 Materials and Manufacturing 2

Please note:

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

Year 3 - Semester 1 (to be introduced in 2012)

ENB222 Thermodynamics 1
ENB311 Stress Analysis
ENB312 Dynamics of Machinery
ENB316 Design of Machine Elements

Year 3 - Semester 2 (to be introduced in 2012)

ENB313 Automatic Control
ENB317 Design and Maintenance of Machinery
ENB321 Fluids Dynamics
MAB233 Engineering Mathematics 3
OR
Selective

Year 4 - Semester 1 (to be introduced in 2013)

BEB801 Project 1
ENB315 Motor Racing Vehicle Design
ENB421 Thermodynamics 2
ENB432 Engineering Asset Management and Maintenance

Year 4 - Semester 2 (to be introduced in 2013)

BEB701 Work Integrated Learning 1
BEB802 Project 2
Selective
Selective

Motor Racing Engineering Selectives

ENB314 Industrial Noise and Vibration
ENB333 Operations Management
ENB339 Introduction to Robotics
ENB433 Plant and Process Design
ENB434 Tribology
DNB202 Product Usability

Course structure - Automotive Engineering 2nd major (commencing 2009)

Year 1, Semester 1

BEB100	Introducing Professional Learning
ENB101	Engineering Mechanics 1
ENB104	Engineering Materials
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B

Year 1, Semester 2

ENB102	Engineering Mechanics 2
ENB103	Electrical Engineering
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B
PCB136	Engineering Physics 1C

Year 2, Semester 1

ENB105	Electrical and Computer Engineering
ENB211	Dynamics
ENB231	Materials and Manufacturing 1
MAB233	Engineering Mathematics 3

Year 2, Semester 2

BEB200	Introducing Sustainability
ENB201	Fluid Mechanics
ENB215	Fundamentals of Mechanical Design
ENB222	Thermodynamics 1

Year 3, Semester 1

ENB311	Stress Analysis
ENB313	Automatic Control
ENB316	Design of Machine Elements
ENB333	Operations Management

Year 3, Semester 2

ENB312	Dynamics of Machinery
ENB317	Design and Maintenance of Machinery
ENB321	Fluids Dynamics
ENB331	Materials and Manufacturing 2

Year 4, Semester 1

BEB701	Work Integrated Learning 1
ENB315	Motor Racing Vehicle Design
ENB421	Thermodynamics 2
ENB432	Engineering Asset Management and Maintenance

Year 4, Semester 2

BEB801	Project 1
BEB802	Project 2
DNB202	Product Usability

ENB334	Design For Manufacturing
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Course structure - Automotive Engineering 2nd major (commencing 2006-8)

Year 1, Semester 1

BEB100	Introducing Professional Learning
ENB101	Engineering Mechanics 1
ENB104	Engineering Materials
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B

Year 1, Semester 2

ENB102	Engineering Mechanics 2
ENB103	Electrical Engineering
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B
PCB136	Engineering Physics 1C

Year 2, Semester 1

ENB105	Electrical and Computer Engineering
ENB211	Dynamics
ENB231	Materials and Manufacturing 1
MAB233	Engineering Mathematics 3

Year 2, Semester 2

BEB200	Introducing Sustainability
ENB201	Fluid Mechanics
ENB215	Fundamentals of Mechanical Design
ENB222	Thermodynamics 1

Year 3, Semester 1

ENB301	Instrumentation and Control
ENB311	Stress Analysis
ENB316	Design of Machine Elements
ENB331	Materials and Manufacturing 2

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

Course structure - Engineering Management 2nd major (commencing 2010 onwards)

Year 1 - Semester 1

ENB100	Engineering and Sustainability
ENB110	Engineering Statics and Materials
ENB130	Mechanical and Thermal Energy
MAB125	Foundations of Engineering Mathematics
	OR
MAB126	Mathematics for Engineering 1

Year 1 - Semester 2

ENB120	Electrical Energy and Measurements
ENB150	Introducing Engineering Design
ENB200	Introducing Engineering Systems
MAB126	Mathematics for Engineering 1
	OR
MAB127	Mathematics for Engineering 2

Year 2 - Semester 1 (to be introduced in 2011)

ENB211	Dynamics
ENB212	Strength of Materials
ENB231	Materials and Manufacturing 1
MAB127	Mathematics for Engineering 2
	OR
MAB233	Engineering Mathematics 3

Year 2 - Semester 2 (to be introduced in 2011)

ENB205	Electrical and Computer Engineering
ENB215	Fundamentals of Mechanical Design
ENB221	Fluid Mechanics
ENB331	Materials and Manufacturing 2

Please note:

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

Year 3 - Semester 1 (to be introduced in 2012)

ENB222	Thermodynamics 1
ENB311	Stress Analysis
ENB312	Dynamics of Machinery
ENB316	Design of Machine Elements

Year 3 - Semester 2 (to be introduced in 2012)

ENB313	Automatic Control
ENB317	Design and Maintenance of Machinery
ENB321	Fluids Dynamics
MAB233	Engineering Mathematics 3
	OR
	Selective

Year 4 - Semester 1 (to be introduced in 2013)

ENB336	Industrial Engineering
ENB421	Thermodynamics 2
ENB432	Engineering Asset Management and Maintenance
	Selective

Year 4 - Semester 2 (to be introduced in 2013)

BEB701	Work Integrated Learning 1
BEB801	Project 1
BEB802	Project 2
ENB333	Operations Management

Engineering Management Selectives

Semester 1:

ENB423	Heating, Ventilation and Air-Conditioning
ENB435	Computer Integrated Manufacturing
	Any Business unit with permission from coordinator.

Semester 2:

ENB339	Introduction to Robotics
ENB422	Energy Management
ENB433	Plant and Process Design
ENB434	Tribology
	Any Business unit with permission from coordinator.

Course structure - Engineering Management 2nd major (commencing 2009)

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.

Year 1, Semester 1

BEB100	Introducing Professional Learning
ENB101	Engineering Mechanics 1
ENB104	Engineering Materials
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B

Year 1, Semester 2

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- ENB102 Engineering Mechanics 2
- ENB103 Electrical Engineering
- MAB132 Engineering Mathematics 2A
OR
- MAB182 Engineering Mathematics 2B
- PCB136 Engineering Physics 1C

OR any Business unit approved by the coordinator.

Course structure - Engineering Management 2nd major (commencing 2006-8)

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.

Year 2, Semester 1

- ENB105 Electrical and Computer Engineering
- ENB211 Dynamics
- ENB231 Materials and Manufacturing 1
- MAB233 Engineering Mathematics 3

Year 2, Semester 2

- BEB200 Introducing Sustainability
- ENB201 Fluid Mechanics
- ENB215 Fundamentals of Mechanical Design
- ENB222 Thermodynamics 1

Year 3, Semester 1

- ENB311 Stress Analysis
- ENB313 Automatic Control
- ENB316 Design of Machine Elements
- ENB333 Operations Management

Year 3, Semester 2

- ENB312 Dynamics of Machinery
- ENB321 Fluids Dynamics
- ENB331 Materials and Manufacturing 2
- ENB336 Industrial Engineering

Year 4, Semester 1

- BEB701 Work Integrated Learning 1
- ENB421 Thermodynamics 2
- ENB432 Engineering Asset Management and Maintenance
Second Major Selective

Year 4, Semester 2

- BEB801 Project 1
- BEB802 Project 2
- ENB317 Design and Maintenance of Machinery
Second Major Selective

Second Major Selectives

- ENB339 Introduction to Robotics
- ENB422 Energy Management
- ENB423 Heating, Ventilation and Air-Conditioning
- ENB433 Plant and Process Design
- ENB434 Tribology
- ENB435 Computer Integrated Manufacturing

Year 1, Semester 1

- BEB100 Introducing Professional Learning
- ENB101 Engineering Mechanics 1
- ENB104 Engineering Materials
- MAB131 Engineering Mathematics 1A
OR
- MAB180 Engineering Mathematics 1B

Year 1, Semester 2

- ENB102 Engineering Mechanics 2
- ENB103 Electrical Engineering
- MAB132 Engineering Mathematics 2A
OR
- MAB182 Engineering Mathematics 2B
- PCB136 Engineering Physics 1C

Year 2, Semester 1

- ENB105 Electrical and Computer Engineering
- ENB211 Dynamics
- ENB231 Materials and Manufacturing 1
- MAB233 Engineering Mathematics 3

Year 2, Semester 2

- BEB200 Introducing Sustainability
- ENB201 Fluid Mechanics
- ENB215 Fundamentals of Mechanical Design
- ENB222 Thermodynamics 1

Year 3, Semester 1

- ENB301 Instrumentation and Control
- ENB311 Stress Analysis
- ENB316 Design of Machine Elements
- ENB331 Materials and Manufacturing 2

Year 3, Semester 2

- ENB312 Dynamics of Machinery
- ENB317 Design and Maintenance of Machinery
- ENB321 Fluids Dynamics
- ENB336 Industrial Engineering

Year 4, Semester 1

- ENB333 Operations Management

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

ENB421 Thermodynamics 2
 ENB432 Engineering Asset Management and Maintenance
 Second Major Selective

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
 ENB339 Introduction to Robotics
 ENB422 Energy Management

Students may choose any other unit related to management approved by the Subject Area Coordinator.

Course structure - Heavy Mechanical Engineering 2nd major (commencing 2010 onwards)

Year 1 - Semester 1

ENB100 Engineering and Sustainability
 ENB110 Engineering Statics and Materials
 ENB130 Mechanical and Thermal Energy
 MAB125 Foundations of Engineering Mathematics
 OR
 MAB126 Mathematics for Engineering 1

Year 1 - Semester 2

ENB120 Electrical Energy and Measurements
 ENB150 Introducing Engineering Design
 ENB200 Introducing Engineering Systems
 MAB126 Mathematics for Engineering 1
 OR
 MAB127 Mathematics for Engineering 2

Year 2 - Semester 1 (to be introduced in 2011)

ENB211 Dynamics
 ENB212 Strength of Materials
 ENB231 Materials and Manufacturing 1
 MAB127 Mathematics for Engineering 2
 OR
 MAB233 Engineering Mathematics 3

Year 2 - Semester 2 (to be introduced in 2011)

ENB205 Electrical and Computer Engineering

ENB215 Fundamentals of Mechanical Design
 ENB221 Fluid Mechanics
 ENB331 Materials and Manufacturing 2

Please note:

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

Year 3 - Semester 1 (to be introduced in 2012)

ENB222 Thermodynamics 1
 ENB311 Stress Analysis
 ENB312 Dynamics of Machinery
 ENB316 Design of Machine Elements

Year 3 - Semester 2 (to be introduced in 2012)

ENB313 Automatic Control
 ENB314 Industrial Noise and Vibration
 ENB317 Design and Maintenance of Machinery
 ENB321 Fluids Dynamics

Year 4 - Semester 1 (to be introduced in 2013)

BEB801 Project 1
 ENB421 Thermodynamics 2
 ENB423 Heating, Ventilation and Air-Conditioning
 MAB233 Engineering Mathematics 3
 OR
 Selective

Year 4 - Semester 2 (to be introduced in 2013)

BEB701 Work Integrated Learning 1
 BEB802 Project 2
 ENB433 Plant and Process Design
 ENB434 Tribology

Heavy Mechanical Engineering Selectives

Semester 1:

ENB336 Industrial Engineering
 ENB339 Introduction to Robotics
 ENB432 Engineering Asset Management and Maintenance
 ENB435 Computer Integrated Manufacturing

Potential Careers:

Engineer, Mechanical Engineer.

Bachelor of Engineering (Mechatronics) (EN40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056529D

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$12,125 (indicative) per semester

Domestic Entry: February and July

International Entry: February and July

QTAC code: 412502

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

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

Please Note:

As from 2011, Infomechatronics will become Mechatronics.

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.

Professional Recognition

Full professional accreditation from Engineers Australia has been given for this course.

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.

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.

Special Course Requirements

Students must obtain at least 60 days of industrial work experience in an engineering environment as part of the Work Integrated Learning unit.

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

School of Engineering Systems - Phone +61 7 3138 1993, Fax +61 7 3138 1516, email: bee.enquiries@qut.com

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Full-time Course structure – Students commencing February 2010 onwards (Years 2 – 4)

Please Note:

For 1st year enrolment program please refer to EN40 Bachelor of Engineering course entry.

Year 2 - Semester 1 (to be introduced in 2011)

ENB211	Dynamics
ENB212	Strength of Materials
ENB231	Materials and Manufacturing 1
MAB127	Mathematics for Engineering 2
	OR
MAB233	Engineering Mathematics 3

Year 2 - Semester 2 (to be introduced in 2011)

ENB215	Fundamentals of Mechanical Design
ENB221	Fluid Mechanics
ENB331	Materials and Manufacturing 2
INB104	Building IT Systems

Year 3 - Semester 1 (to be introduced in 2012)

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

ENB222	Thermodynamics 1
ENB240	Introduction To Electronics
ENB250	Electrical Circuits
ENB334	Design For Manufacturing

Year 3 - Semester 2 (to be introduced in 2012)

ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
ENB436	Mechatronics System Design
INB270	Programming

Year 4 - Semester 1 (to be introduced in 2013)

ENB301	Instrumentation and Control
INB370	Software Development
INB860	Computational Intelligence for Control and Embedded Systems
MAB233	Engineering Mathematics 3
	OR
	Selective

Year 4 - Semester 2 (to be introduced in 2013)

BEB701	Work Integrated Learning 1
BEB801	Project 1
BEB802	Project 2
ENB333	Operations Management

Mechatronics Selectives

ENB245	Introduction To Design and Professional Practice
ENB457	Controls, Systems and Applications
	OR any INB unit with permission from Coordinator.

Full-time Course structure – Students commencing Mid-Year 2010 (Years 2 – 5)

Please Note:

For 1st year enrolment program please refer to EN40 Bachelor of Engineering course entry.

Year 2 - Semester 1 (to be introduced in 2011)

ENB211	Dynamics
ENB212	Strength of Materials
ENB231	Materials and Manufacturing 1
MAB127	Mathematics for Engineering 2
	OR
MAB233	Engineering Mathematics 3

Year 2 - Semester 2 (to be introduced in 2011)

ENB150	Introducing Engineering Design
ENB200	Introducing Engineering Systems
ENB331	Materials and Manufacturing 2
INB104	Building IT Systems

Year 3 - Semester 1 (to be introduced in 2012)

ENB222	Thermodynamics 1
ENB240	Introduction To Electronics
ENB250	Electrical Circuits
ENB334	Design For Manufacturing

Year 3 - Semester 2 (to be introduced in 2012)

ENB215	Fundamentals of Mechanical Design
ENB221	Fluid Mechanics
ENB243	Linear Circuits and Systems
INB270	Programming

Year 4 - Semester 1 (to be introduced in 2013)

ENB301	Instrumentation and Control
INB370	Software Development
INB860	Computational Intelligence for Control and Embedded Systems

Year 4 - Semester 2 (to be introduced in 2013)

ENB244	Microprocessors and Digital Systems
ENB333	Operations Management
ENB436	Mechatronics System Design
MAB233	Engineering Mathematics 3
	OR
	Selective

Year 5 - Semester 1 (to be introduced in 2014)

BEB701	Work Integrated Learning 1
BEB801	Project 1
BEB802	Project 2

Infomechatronics Selectives

ENB245	Introduction To Design and Professional Practice
ENB457	Controls, Systems and Applications
	OR any INB unit with permission from Coordinator.

Full-time Course structure - Commencing February 2009

Year 1 - Semester 1

BEB100	Introducing Professional Learning
ENB101	Engineering Mechanics 1
ENB104	Engineering Materials
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B

Year 1 - Semester 2

ENB102	Engineering Mechanics 2
ENB103	Electrical Engineering

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

MAB132 Engineering Mathematics 2A
OR

MAB182 Engineering Mathematics 2B

PCB136 Engineering Physics 1C

Year 2 - Semester 1

ENB211 Dynamics

ENB231 Materials and Manufacturing 1

ENB240 Introduction To Electronics

INB104 Building IT Systems

Year 2 - Semester 2

BEB200 Introducing Sustainability

ENB201 Fluid Mechanics

ENB215 Fundamentals of Mechanical Design

INB270 Programming

Year 3 - Semester 1

BEB701 Work Integrated Learning 1

ENB340 Power Systems and Machines

INB370 Software Development

MAB233 Engineering Mathematics 3

Year 3 - Semester 2

ENB222 Thermodynamics 1

ENB243 Linear Circuits and Systems

ENB244 Microprocessors and Digital Systems

ENB331 Materials and Manufacturing 2

Year 4 - Semester 1

ENB301 Instrumentation and Control

ENB333 Operations Management

ENB334 Design For Manufacturing

INB860 Computational Intelligence for Control and Embedded Systems

Year 4 - Semester 2

BEB801 Project 1

BEB802 Project 2

ENB436 Mechatronics System Design

Applications Minor Selective

Applications Minor Selectives

ENB245 Introduction To Design and Professional Practice

ENB350 Real-time Computer-based Systems

ENB352 Communication Environments For Embedded Systems

ENB457 Controls, Systems and Applications

OR students may choose any advanced-level IT unit with Subject Area Coordinator/Course Coordinator approval.

2006 - 2008

Year 1 - Semester 1

BEB100 Introducing Professional Learning

MAB131 Engineering Mathematics 1A
OR

MAB180 Engineering Mathematics 1B

PCB136 Engineering Physics 1C

INB870 Introduction to Technical Computing
OR (prior to 2008)

ITB849 Introduction to Technical Computing

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

INB371 Data Structures and Algorithms
OR (prior to 2008)

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

Applications Minor Selective

INB860 Computational Intelligence for Control and

Full-time Course structure - Commencing February

Embedded Systems

OR (prior to 2008)

ITB847 Computational Intelligence for Control and Embedded Systems

Year 4 - Semester 2

BEB701 Work Integrated Learning 1

BEB801 Project 1

BEB802 Project 2

INB365 Systems Programming

OR (prior to 2008)

ITB745 Operating Systems

Applications Minor Selectives

ENB245 Introduction To Design and Professional Practice

ENB350 Real-time Computer-based Systems

ENB352 Communication Environments For Embedded Systems

ENB457 Controls, Systems and Applications

OR students may choose any advanced-level IT unit with Subject Area Coordinator/Course Coordinator approval.

Potential Careers:

Engineer, Manufacturer, Mechanical Engineer.

Bachelor of Engineering (Medical) (EN40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056529D

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$12,375 (indicative) per semester

Domestic Entry: February and July

International Entry: February and July

QTAC code: 412502

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

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

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 as part of the Work Integrated Learning unit. 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 intergrated learning unit, a project unit and two specialised engineering units.

Further Information

School of Engineering Systems - Phone +61 7 3138 1993, Fax +61 7 3138 1516, email: bee.enquiries@qut.com

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).

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Full-time Course structure – Students commencing February 2010 onwards (Years 2 – 4)

Please Note:

For 1st year enrolment program please refer to EN40 Bachelor of Engineering course entry.

Year 2 - Semester 1 (to be introduced in 2011)

ENB211	Dynamics
ENB212	Strength of Materials
LSB131	Anatomy
MAB127	Mathematics for Engineering 2
	OR
MAB233	Engineering Mathematics 3

Year 2 - Semester 2 (to be introduced in 2011)

ENB205	Electrical and Computer Engineering
ENB215	Fundamentals of Mechanical Design
ENB221	Fluid Mechanics
LSB231	Physiology

Year 3 - Semester 1 (to be introduced in 2012)

ENB222	Thermodynamics 1
ENB231	Materials and Manufacturing 1
ENB311	Stress Analysis
ENB319	Biomechanical Engineering Design

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

Year 3 - Semester 2 (to be introduced in 2012)

ENB313	Automatic Control
ENB318	Biomechanical Engineering Systems
ENB338	Biomaterials
ENB322	Biofluids

Year 4 - Semester 1 (to be introduced in 2013)

BEB801	Project 1
ENB335	Modelling and Simulation For Medical Engineers
ENB432	Engineering Asset Management and Maintenance
MAB233	Engineering Mathematics 3
	OR
	Selective

Year 4 - Semester 2 (to be introduced in 2013)

BEB701	Work Integrated Learning 1
BEB802	Project 2
ENB437	Health Legislation in the Medical Environment
PCB605	Biomedical Instrumentation

Medical Engineering Selectives

BSB115	Management
MAB220	Computational Mathematics 1
HMB384	Injury Prevention and Rehabilitation
MAB422	Mathematical Modelling
PCB593	Digital Image Processing
PCN112	Medical Imaging Science
PCN211	Physics of Medical Imaging
PUB112	Workplace Health and Safety
PYB100	Foundation Psychology
SCB384	Forensic Sciences - From Crime Scene to Court

Full-time Course structure – Students commencing Mid-Year 2010 (Years 2 – 5)

Please Note:

For 1st year enrolment program please refer to EN40 Bachelor of Engineering course entry.

Year 2 - Semester 1 (to be introduced in 2011)

ENB212	Strength of Materials
LSB131	Anatomy
ENB231	Materials and Manufacturing 1
MAB127	Mathematics for Engineering 2
	OR
MAB233	Engineering Mathematics 3

Year 2 - Semester 2 (to be introduced in 2011)

ENB150	Introducing Engineering Design
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ENB200	Introducing Engineering Systems
ENB221	Fluid Mechanics
LSB231	Physiology

Year 3 - Semester 1 (to be introduced in 2012)

ENB222	Thermodynamics 1
ENB311	Stress Analysis
ENB211	Dynamics
MAB233	Engineering Mathematics 3
	OR
	Selective

Year 3 - Semester 2 (to be introduced in 2012)

ENB205	Electrical and Computer Engineering
ENB215	Fundamentals of Mechanical Design
ENB322	Biofluids
ENB338	Biomaterials

Year 4 - Semester 1 (to be introduced in 2013)

ENB319	Biomechanical Engineering Design
ENB318	Biomechanical Engineering Systems
ENB432	Engineering Asset Management and Maintenance

Year 4 - Semester 2 (to be introduced in 2013)

ENB313	Automatic Control
ENB437	Health Legislation in the Medical Environment
PCB605	Biomedical Instrumentation
ENB335	Modelling and Simulation For Medical Engineers

Year 5 - Semester 1 (to be introduced in 2014)

BEB701	Work Integrated Learning 1
BEB801	Project 1
BEB802	Project 2

Medical Engineering Selectives

BSB115	Management
HMB384	Injury Prevention and Rehabilitation
MAB220	Computational Mathematics 1
MAB422	Mathematical Modelling
PCB593	Digital Image Processing
PCN112	Medical Imaging Science
PCN211	Physics of Medical Imaging
PUB112	Workplace Health and Safety
PYB100	Foundation Psychology
SCB384	Forensic Sciences - From Crime Scene to Court

Full-time Course structure - Commencing February 2009

Year 1 - Semester 1

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

BEB100	Introducing Professional Learning
ENB101	Engineering Mechanics 1
ENB104	Engineering Materials
MAB131	Engineering Mathematics 1A OR
MAB180	Engineering Mathematics 1B

Year 1 - Semester 2

ENB102	Engineering Mechanics 2
ENB103	Electrical Engineering
MAB132	Engineering Mathematics 2A OR
MAB182	Engineering Mathematics 2B
PCB136	Engineering Physics 1C

Year 2 - Semester 1

LSB131	Anatomy
ENB211	Dynamics
LSB451	Human Physiology
MAB233	Engineering Mathematics 3

Year 2 - Semester 2

BEB200	Introducing Sustainability
ENB201	Fluid Mechanics
ENB215	Fundamentals of Mechanical Design
ENB222	Thermodynamics 1

Year 3 - Semester 1

ENB231	Materials and Manufacturing 1
ENB311	Stress Analysis
ENB319	Biomechanical Engineering Design
ENB432	Engineering Asset Management and Maintenance

Year 3 - Semester 2

ENB205	Electrical and Computer Engineering
ENB318	Biomechanical Engineering Systems
ENB322	Biofluids
ENB338	Biomaterials

Year 4 - Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
ENB301	Instrumentation and Control Applications Minor Selective

Year 4 - Semester 2

BEB802	Project 2
ENB335	Modelling and Simulation For Medical Engineers
ENB437	Health Legislation in the Medical Environment

PCB605	Biomedical Instrumentation
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Applications Minor Selectives

BSB115	Management
MAB220	Computational Mathematics 1
HMB384	Injury Prevention and Rehabilitation
MAB422	Mathematical Modelling
PCB593	Digital Image Processing
PCN112	Medical Imaging Science
PCN211	Physics of Medical Imaging
PUB112	Workplace Health and Safety
PYB012	Psychology
SCB384	Forensic Sciences - From Crime Scene to Court

Full-time Course structure - Commencing February 2007 & 2008

Year 1 - Semester 1

ENB101	Engineering Mechanics 1
LSB131	Anatomy
MAB131	Engineering Mathematics 1A OR
MAB180	Engineering Mathematics 1B
PCB136	Engineering Physics 1C

Year 1 - Semester 2

ENB102	Engineering Mechanics 2
ENB103	Electrical Engineering
ENB104	Engineering Materials
MAB132	Engineering Mathematics 2A OR
MAB182	Engineering Mathematics 2B

Year 2 - Semester 1

ENB211	Dynamics
BEB100	Introducing Professional Learning
ENB231	Materials and Manufacturing 1
LSB451	Human Physiology

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 Applications Minor Selective

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

BSB115	Management
HMB384	Injury Prevention and Rehabilitation
MAB220	Computational Mathematics 1
MAB422	Mathematical Modelling
PCB593	Digital Image Processing
PCN112	Medical Imaging Science
PCN211	Physics of Medical Imaging
PUB112	Workplace Health and Safety
PYB012	Psychology
SCB384	Forensic Sciences - From Crime Scene to Court

Full-time Course structure - Commencing February 2006

Year 1 - Semester 1

ENB101	Engineering Mechanics 1
LSB142	Human Anatomy and Physiology
MAB131	Engineering Mathematics 1A OR
MAB180	Engineering Mathematics 1
PCB136	Engineering Physics 1C

Year 1- Semester 2

BEB100	Introducing Professional Learning
ENB103	Electrical Engineering
ENB104	Engineering Materials
MAB132	Engineering Mathematics 1B OR
MAB182	Engineering Mathematics 2B

Year 2 - Semester 1

ENB211	Dynamics
ENB231	Materials and Manufacturing 1
HMB274	Functional Anatomy
MMB211	Mechanics 1

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
ENB335	Modelling and Simulation For Medical Engineers
ENB338	Biomaterials

Year 4 - Semester 1

BEB801	Project 1
ENB301	Instrumentation and Control
ENB432	Engineering Asset Management and Maintenance Applications Minor Selective

Year 4 - Semester 2

BEB701	Work Integrated Learning 1
BEB802	Project 2
ENB437	Health Legislation in the Medical Environment
PCB605	Biomedical Instrumentation

Applications Minor Selectives

BSB115	Management
MAB220	Computational Mathematics 1
HMB384	Injury Prevention and Rehabilitation
MAB422	Mathematical Modelling
PCB593	Digital Image Processing
PCN112	Medical Imaging Science
PCN211	Physics of Medical Imaging
PUB112	Workplace Health and Safety
PYB012	Psychology
SCB384	Forensic Sciences - From Crime Scene to Court

Potential Careers:

Biomechanical Engineer, Biomedical Engineer, Engineer,
Mechanical Engineer.

Bachelor of Engineering (Telecommunications) (EN40)

Year offered: 2011

Admissions: No

CRICOS code: 056529D

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$12,000 (indicative) per semester

Domestic Entry: This course is only taught to continuing students only.

International Entry: This course is only taught to continuing students only.

QTAC code: 412502

Past rank cut-off: 79

Past OP cut-off: 11

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Dr R.Mahalinga-lyer

Discipline coordinator: Dr Jasmine Banks

Campus: Gardens Point

Discontinuation

From Semester 1 2010, this primary major has been discontinued. A second major in this discipline is currently under development.

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, Vodaphone, 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

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.

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.

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 as part of the Work Integrated Learning unit. .

Further Information

School of Engineering Systems - Phone +61 7 3864 1993, Fax +61 7 3864 1516, email: bee.enquiries@qut.com

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).

Full-time Course structure - Commencing February 2009

Year 1 - Semester 1

BEB100	Introducing Professional Learning
ENB101	Engineering Mechanics 1
ENB104	Engineering Materials
MAB131	Engineering Mathematics 1A OR
MAB180	Engineering Mathematics 1B

Year 1 - Semester 2

BEB200	Introducing Sustainability
ENB103	Electrical Engineering
MAB132	Engineering Mathematics 2A OR
MAB182	Engineering Mathematics 2B
PCB136	Engineering Physics 1C

Year 2 - Semester 1

ENB240	Introduction To Electronics
ENB242	Introduction To Telecommunications
INB104	Building IT Systems
MAB233	Engineering Mathematics 3

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

Year 2 - Semester 2

ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice
INB270	Programming

Year 3 - Semester 1

ENB301	Instrumentation and Control
ENB342	Signals, Systems and Transforms
ENB343	Fields, Transmission and Propagation
INB371	Data Structures and Algorithms

Year 3 - Semester 2

BEB701	Work Integrated Learning 1
ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications
INB251	Networks

Year 4 - Semester 1

BEB801	Project 1
ENB440	RF Techniques and Modern Applications
INB350	Internet Protocols and Services
INB353	Wireless and Mobile Networks

Year 4 - Semester 2

BEB802	Project 2
ENB445	RF Communication Technologies
ENB446	Wireless Communications
ENB448	Signal Processing and Filtering

Full-time Course structure - Commencing February 2006 - 2008

Year 1 - Semester 1

BEB100	Introducing Professional Learning
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B
PCB136	Engineering Physics 1C
INB104	Building IT Systems
	OR (prior to 2009)
ITB001	Problem Solving and Programming

Year 1 - Semester 2

BEB200	Introducing Sustainability
ENB103	Electrical Engineering
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B
INB270	Programming

OR (prior to 2009)

ITB003 Object Oriented Programming

Year 2 - Semester 1

ENB240	Introduction To Electronics
ENB242	Introduction To Telecommunications
MAB233	Engineering Mathematics 3
INB371	Data Structures and Algorithms
	OR (prior to 2009)
ITB711	Programming Abstraction

Year 2 - Semester 2

ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice
INB251	Networks
	OR (prior to 2009)
ITB006	Networks

Year 3 - Semester 1

ENB301	Instrumentation and Control
ENB342	Signals, Systems and Transforms
ENB343	Fields, Transmission and Propagation
INB350	Internet Protocols and Services

Year 3 - Semester 2

BEB701	Work Integrated Learning 1
ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications
	IT Elective

Year 4 - Semester 1

BEB801	Project 1
ENB440	RF Techniques and Modern Applications
INB353	Wireless and Mobile Networks
INB355	Cryptology and Protocols

Year 4 - Semester 2

BEB802	Project 2
ENB445	RF Communication Technologies
ENB446	Wireless Communications
ENB448	Signal Processing and Filtering

IT Elective

Students are allowed to choose an IT unit at the appropriate level approved by the Subject Area Coordinator.

Potential Careers:

Electrical and Computer Engineer, Electrical Engineer, Engineer.

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

Year offered: 2011

Admissions: Yes

CRICOS code: 056529D

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester (Sponsorship applies)

International Fees (indicative): 2011: \$12,250 (indicative) per semester less sponsorship of approx \$3,800

Domestic Entry: February: Fixed closing date - 30 November

International Entry: February: Fixed closing date - 30 November

QTAC code: 412052

Past rank cut-off: 99 plus successful questionnaire and interview. Please refer to Additional Entry Requirements.

Past OP cut-off: 1 plus successful questionnaire and interview. Please refer to Additional Entry Requirements.

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 384

Course coordinator: Dr R.Mahalinga-lyer

Campus: Gardens Point

Prerequisites

Questionnaire and interview. Must also be a current Year 12 student or returning from a gap year.

Additional Entry Requirements

Engineering Dean's Scholars applicants are required to complete a questionnaire which will be available via the **Engineering Dean's Scholars website** .

Fixed Closing Date

Applications for this program will close on **26 November 2010**.

Recommended Study

Chemistry, Maths C, and Physics.

Industry Sponsors

Bechtel
Boeing
Brisbane Airport Corporation
Farallon Capital
John Holland
Laing O'Rourke
Queensland Resources Council
Robert Bird Group

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.

Special Course Requirements

Dean's Scholars are expected to maintain a GPA of 6.0 or above and complete 60 days of Industry experience. For a copy of the program rules and regulations please contact the External Relations Portfolio of the Faculty of Built Environment and Engineering or <http://www.bee.qut.edu.au/study/scholarships/commencing/deansscholars/conditions.jsp>

International Student Fees

International students successful in gaining entry will receive a scholarship for approximately one-third of their tuition fees (equivalent of HECS-HELP fees) for the Bachelor of Engineering course.

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).

Professional Recognition

Full professional accreditation from Engineers Australia has been given for this course.

Further Information

The Faculty of Built Environment and Engineering Phone + 61 7 3138 2628, Fax + 61 7 3138 5280, email: dsp.bee@qut.edu.au

Deferment

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

course structure

For course structures, please see EN40 Bachelor of Engineering

Additional Information

The Dean's Scholars program offers students the opportunity to complete a Bachelor of Engineering degree. Students are also offered a range of opportunities including:

- Company site visits with major industry players
- An annual leadership dinner
- Events relating to industry and associations
- Close interaction with senior academics who have strong industry links
- Mentoring

Some industry sponsors also offer boardroom visits, which give Dean's Scholars the opportunity to experience engineering environments and high level engineering management.

Potential Careers:

Bioengineer, Biomechanical Engineer, Biomedical Engineer, Civil Engineer, Computer Systems Engineer, Data Communications Specialist, Electrical and Computer Engineer, Electrical Engineer, 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: 2011

Admissions: Yes

CRICOS code: 060811A

Course duration (full-time): 1 year

Course duration (part-time): 2 years

Domestic fees (indicative): 2011: Full fee tuition \$8,875 (indicative) per semester

International Fees (indicative): 2011: \$11,375 (indicative) per semester

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 Mark Ho (Please refer course specific enquiries to Course Leader.)

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 two core units and two specialisation 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).

Advanced Standing

Students completing two Masters courses in the Faculty of Built Environment and Engineering will be eligible to apply for a maximum of 24 credit points advanced standing in the second course on the basis of common units already completed. Such students will be required to complete a minimum of 72cp to be determined in consultation with the nominated Course Leader, to achieve the second Masters.

Further Information

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

Full-time Course structure - February Entry

Year 1, Semester 1	
BEN610	Project Management Principles
ENN520	Advanced Signal Processing and Systems
ENN540	Engineering Optimisation
AMN435	Communication, Negotiation and Leadership

Year 1, Semester 2	
BEN710	Sustainable Practice in Built Environment and Engineering
BEN910	Integrated Project
ENN560	System Design
ENN580	Control Systems

Full-time Course structure - Mid Year Entry

Year 1, Semester 2	
BEN710	Sustainable Practice in Built Environment and Engineering
ENN560	System Design
ENN580	Control Systems
AMN435	Communication, Negotiation and Leadership

Year 2, Semester 1	
BEN610	Project Management Principles
BEN910	Integrated Project
ENN520	Advanced Signal Processing and Systems
ENN540	Engineering Optimisation

Part-time Course structure - February Entry

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

AMN435 Communication, Negotiation and Leadership

Year 2, Semester 2

BEN710 Sustainable Practice in Built Environment and Engineering

BEN910 Integrated Project

Part-time Course structure - Mid Year Entry

Year 1, Semester 2

ENN560 System Design

ENN580 Control Systems

Year 2, Semester 1

BEN610 Project Management Principles

ENN520 Advanced Signal Processing and Systems

Year 2, Semester 2

BEN710 Sustainable Practice in Built Environment and Engineering

AMN435 Communication, Negotiation and Leadership

Year 3, Semester 1

BEN910 Integrated Project

ENN540 Engineering Optimisation

Potential Careers:

Civil Engineer, Electrical and Computer Engineer, Electrical Engineer, Engineering Technologist, Mechanical Engineer, Medical Engineer.

Bachelor of Engineering (Electrical)/ Bachelor of Mathematics (IF21)

Year offered: 2011

Admissions: Yes

CRICOS code: 020329J

Course duration (full-time): 5 years

Domestic fees (indicative): 2011: CSP \$2,883 (indicative) per semester

International Fees (indicative): 2011: \$11,875 (indicative) per semester

Domestic Entry: February

International Entry: February

QTAC code: 419572

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 480

Standard credit points per full-time semester: 48

Course coordinator: Dr R.Mahalinga-Iyer (Engineering); Professor Helen MacGillivray (Science & Technology)

Discipline coordinator: Dr Bouchra Senadji (Engineering); Professor Helen MacGillivray (Mathematics Major)

Campus: Gardens Point

Overview

Mathematics and engineering have always had close connections, but recent advancements in mathematics and statistics are increasingly being used to help solve complex engineering problems.

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.

Career Outcomes

Career outcomes for engineering/mathematics double degree students include working in the power industry, robotics, manufacturing and mining. Career opportunities are also found in the telecommunications industry, transport sector, computer industry and transmission industries.

Professional Recognition

This course meets the requirements for membership of Engineers Australia (EA). EA is a signatory to the Washington Accord, which permits graduates from accredited member courses to work in various countries across the world. The course also meets the coursework requirements for accredited graduate membership of the Australian Mathematical Society. You may also become a member of the Statistical Society of Australia.

Other Course Requirements

Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator.

Financial Support

You should consider applying for an industry-sponsored mathematics bursary or an engineering scholarship to help you financially throughout your studies. For further information visit [scholarships](#).

Recommended study

Chemistry, Maths C and Physics.

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).

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Further Information

For further information about this course, please contact the following:

Engineering Coordinator

Dr Bouchra Senadji

Phone: 3138 8228

Email: bee.enquiries@qut.com

Science & Technology Coordinator

Professor Helen MacGillivray

Phone: +61 7 3138 2337

Email: h.macgillivray@qut.edu.au

Course structure - For students commencing in 2011 (Maths B 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

ENB100	Engineering and Sustainability
ENB130	Mechanical and Thermal Energy
MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus

Year 1, Semester 2

ENB200	Introducing Engineering Systems
ENB120	Electrical Energy and Measurements
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry

Year 2, Semester 1

ENB110	Engineering Statics and Materials
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ENB250 Electrical Circuits
 MAB220 Computational Mathematics 1
 MAB311 Advanced Calculus

ENB453 Power Equipment and Utilisation
 ENB456 Energy
 ENB457 Controls, Systems and Applications
 ENB458 Modern Control Systems

Year 2, Semester 2

ENB150 Introducing Engineering Design
 MAB210 Statistical Modelling 1
 MAB413 Differential Equations
 Mathematics Elective (Level 2)

Course structure - For students commencing in 2011 (Maths B and Maths 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.

Year 3, Semester 1

ENB240 Introduction To Electronics
 ENB246 Engineering Problem Solving
 MAB312 Linear Algebra
 MAB314 Statistical Modelling 2

Year 1, Semester 1

ENB100 Engineering and Sustainability
 ENB130 Mechanical and Thermal Energy
 MAB121 Calculus and Differential Equations
 MAB122 Algebra and Analytic Geometry

Year 3, Semester 2

ENB242 Introduction To Telecommunications
 ENB243 Linear Circuits and Systems
 ENB244 Microprocessors and Digital Systems
 ENB245 Introduction To Design and Professional Practice

Year 1, Semester 2

ENB200 Introducing Engineering Systems
 ENB120 Electrical Energy and Measurements
 MAB101 Statistical Data Analysis 1
 MAB220 Computational Mathematics 1

Year 4, Semester 1

ENB301 Instrumentation and Control
 ENB340 Power Systems and Machines
 ENB342 Signals, Systems and Transforms
 Mathematics Elective (Level 3)

Year 2, Semester 1

ENB110 Engineering Statics and Materials
 ENB250 Electrical Circuits
 MAB210 Statistical Modelling 1
 MAB311 Advanced Calculus

Year 4, Semester 2

ENB345 Advanced Design and Professional Practice
 MAB414 Applied Statistics 2
 Mathematics Elective (Level 3)
 Mathematics Elective (Level 3)

Year 2, Semester 2

ENB150 Introducing Engineering Design
 MAB413 Differential Equations
 Mathematics Elective (Level 2)
 Mathematics Elective (Level 2)

Year 5, Semester 1

BEB701 Work Integrated Learning 1
 BEB801 Project 1
 ENB241 Software Systems Design
 OR Electrical Engineering Selective
 ENB346 Digital Communications

Year 3, Semester 1

ENB240 Introduction To Electronics
 ENB246 Engineering Problem Solving
 MAB312 Linear Algebra
 MAB314 Statistical Modelling 2

Year 5, Semester 2

BEB802 Project 2
 ENB344 Industrial Electronics
 Electrical Engineering Selective
 Mathematics Elective (Level 3)

Year 3, Semester 2

ENB242 Introduction To Telecommunications
 ENB243 Linear Circuits and Systems
 ENB244 Microprocessors and Digital Systems
 ENB245 Introduction To Design and Professional Practice

Electrical Engineering Selectives

ENB339 Introduction to Robotics
 ENB448 Signal Processing and Filtering
 ENB452 Advanced Power Systems Analysis

Year 4, Semester 1

ENB241 Software Systems Design
 OR Electrical Engineering Selective

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ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms

MAB623	Financial Mathematics
MAB624	Applied Statistics 3
MAB625	Operations Research 3B
MAB672	Advanced Mathematical Modelling

Year 4, Semester 2

ENB344	Industrial Electronics
ENB345	Advanced Design and Professional Practice
MAB414	Applied Statistics 2 Mathematics Elective (Level 3)

NOTES:

- 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.

Year 5, Semester 1

BEB801	Project 1
ENB346	Digital Communications Mathematics Elective (Level 3) Mathematics Elective (Level 3)

Course structure - For students commencing in 2010 (Maths B only)

For students with four semesters of Senior Mathematics B (or equivalent) only, with an exit assessment of at least Sound Achievement.

Year 5, Semester 2

BEB701	Work Integrated Learning 1
BEB802	Project 2 Electrical Engineering Selective Mathematics Elective (Level 3)

Year 1, Semester 1

ENB100	Engineering and Sustainability
ENB120	Electrical Energy and Measurements
MAB101	Statistical Data Analysis 1
MAB120	Algebra and Calculus

Electrical Engineering Selectives

ENB339	Introduction to Robotics
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB456	Energy
ENB457	Controls, Systems and Applications
ENB458	Modern Control Systems

Year 1, Semester 2

ENB200	Introducing Engineering Systems
ENB130	Mechanical and Thermal Energy
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry

Mathematics Electives (Level 2)

Select 2 units:

MAB313	Mathematics of Finance
MAB420	Computational Mathematics 2
MAB422	Mathematical Modelling
MAB461	Discrete Mathematics
MAB480	Introduction to Scientific Computation
MAB315	Operations Research 2

Year 2, Semester 1

ENB110	Engineering Statics and Materials
ENB250	Electrical Circuits
MAB220	Computational Mathematics 1
MAB311	Advanced Calculus

Year 2, Semester 2

ENB150	Introducing Engineering Design
MAB210	Statistical Modelling 1
MAB413	Differential Equations Mathematics Elective (Level 2)

Mathematics Electives (Level 3)

Select two units:

MAB521	Applied Mathematics 3
MAB522	Computational Mathematics 3
MAB524	Statistical Inference
MAB525	Operations Research 3A
MAB533	Statistical Techniques
MAB536	Time Series Analysis
MAB613	Partial Differential Equations

Year 3, Semester 1

ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving
MAB312	Linear Algebra
MAB314	Statistical Modelling 2

Year 3, Semester 2

ENB242	Introduction To Telecommunications
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional

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Practice

MAB111 Mathematical Sciences 1B

MAB112 Mathematical Sciences 1C

Year 4, Semester 1

ENB301 Instrumentation and Control
 ENB340 Power Systems and Machines
 ENB342 Signals, Systems and Transforms
 Mathematics Elective (Level 3)

Year 2, Semester 1

ENB240 Introduction To Electronics
 ENB246 Engineering Problem Solving
 MAB220 Computational Mathematics 1
 MAB311 Advanced Calculus

Year 4, Semester 2

ENB345 Advanced Design and Professional Practice
 MAB414 Applied Statistics 2
 Mathematics Elective (Level 3)
 Mathematics Elective (Level 3)

Year 2, Semester 2

ENB243 Linear Circuits and Systems
 ENB244 Microprocessors and Digital Systems
 MAB210 Statistical Modelling 1
 MAB413 Differential Equations

Year 5, Semester 1

BEB701 Work Integrated Learning 1
 BEB801 Project 1
 ENB241 Software Systems Design
 OR Electrical Engineering Selective
 ENB346 Digital Communications

Year 3, Semester 1

ENB242 Introduction To Telecommunications
 ENB350 Real-time Computer-based Systems
 MAB312 Linear Algebra
 MAB314 Statistical Modelling 2

Year 5, Semester 2

BEB802 Project 2
 ENB344 Industrial Electronics
 Electrical Engineering Selective
 Mathematics Elective (Level 3)

Year 3, Semester 2

BEB200 Introducing Sustainability
 ENB245 Introduction To Design and Professional Practice
 ENB352 Communication Environments For Embedded Systems
 MAB414 Applied Statistics 2

Electrical Engineering Selectives

ENB339 Introduction to Robotics
 ENB448 Signal Processing and Filtering
 ENB452 Advanced Power Systems Analysis
 ENB453 Power Equipment and Utilisation
 ENB456 Energy
 ENB457 Controls, Systems and Applications
 ENB458 Modern Control Systems

Year 4, Semester 1

ENB301 Instrumentation and Control
 ENB340 Power Systems and Machines
 ENB342 Signals, Systems and Transforms
 Mathematics elective (Level 2)

Course structure - For students commencing in 2009 (Maths B 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 4, Semester 2

ENB345 Advanced Design and Professional Practice
 ENB346 Digital Communications
 ENB458 Modern Control Systems
 Mathematics elective (Level 3)

Year 1, Semester 2

ENB101 Engineering Mechanics 1
 ENB103 Electrical Engineering

Year 5, Semester 1

BEB701 Work Integrated Learning 1
 BEB801 Project 1
 Electrical Engineering Selective
 Mathematics elective (Level 3)

Year 5, Semester 2

BEB802 Project 2
 ENB344 Industrial Electronics
 Mathematics elective (Level 3)
 Mathematics elective (Level 3)

Electrical Engineering Selectives

ENB339	Introduction to Robotics
ENB440	RF Techniques and Modern Applications
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
ENB446	Wireless Communications
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB454	Power System Management
ENB455	Power Electronics
ENB456	Energy
ENB457	Controls, Systems and Applications
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

Course structure - For students commencing in 2007 & 2008 (Maths B 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
MAB414	Applied Statistics 2 Mathematics elective (Level 2)

Year 4, Semester 1

ENB301	Instrumentation and Control
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms Mathematics elective (Level 2)

Year 4, Semester 2

ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications
ENB458	Modern Control Systems Mathematics elective (Level 3)

Year 5, Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1 Electrical Engineering Selective Mathematics elective (Level 3)

Year 5, Semester 2

BEB802	Project 2
ENB344	Industrial Electronics Mathematics elective (Level 3) Mathematics elective (Level 3)

Electrical Engineering Selectives

ENB339	Introduction to Robotics
ENB440	RF Techniques and Modern Applications
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
ENB446	Wireless Communications
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB454	Power System Management
ENB455	Power Electronics
ENB456	Energy
ENB457	Controls, Systems and Applications
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

Course structure - For students commencing in 2006

(Maths B 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
ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
	Mathematics elective (Level 2)

Year 4, Semester 2

ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications
ENB458	Modern Control Systems
	Mathematics elective (Level 3)

Year 5, Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
	Electrical Engineering Selective
	Mathematics elective (Level 3)

Year 5, Semester 2

BEB802	Project 2
ENB344	Industrial Electronics
	Mathematics elective (Level 3)
	Mathematics elective (Level 3)

Electrical Engineering Selectives

ENB440	RF Techniques and Modern Applications
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
ENB446	Wireless Communications
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB454	Power System Management
ENB455	Power Electronics
ENB456	Energy
ENB457	Controls, Systems and Applications
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

Course structure - For students commencing in 2010 (Maths B and Maths 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.

Year 1, Semester 1

ENB100	Engineering and Sustainability
ENB120	Electrical Energy and Measurements
MAB121	Calculus and Differential Equations
MAB122	Algebra and Analytic Geometry

Year 1, Semester 2

ENB200	Introducing Engineering Systems
ENB130	Mechanical and Thermal Energy
MAB101	Statistical Data Analysis 1

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MAB220 Computational Mathematics 1

Year 2, Semester 1

ENB110 Engineering Statics and Materials

ENB250 Electrical Circuits

MAB210 Statistical Modelling 1

MAB311 Advanced Calculus

Year 2, Semester 2

ENB150 Introducing Engineering Design

MAB413 Differential Equations

Mathematics Elective (Level 2)

Mathematics Elective (Level 2)

Year 3, Semester 1

ENB240 Introduction To Electronics

ENB246 Engineering Problem Solving

MAB312 Linear Algebra

MAB314 Statistical Modelling 2

Year 3, Semester 2

ENB242 Introduction To Telecommunications

ENB243 Linear Circuits and Systems

ENB244 Microprocessors and Digital Systems

ENB245 Introduction To Design and Professional Practice

Year 4, Semester 1

ENB241 Software Systems Design

OR Electrical Engineering Selective

ENB301 Instrumentation and Control

ENB340 Power Systems and Machines

ENB342 Signals, Systems and Transforms

Year 4, Semester 2

ENB344 Industrial Electronics

ENB345 Advanced Design and Professional Practice

MAB414 Applied Statistics 2

Mathematics Elective (Level 3)

Year 5, Semester 1

BEB801 Project 1

ENB346 Digital Communications

Mathematics Elective (Level 3)

Mathematics Elective (Level 3)

Year 5, Semester 2

BEB701 Work Integrated Learning 1

BEB802 Project 2

Electrical Engineering Selective

Mathematics Elective (Level 3)

Electrical Engineering Selectives

ENB339 Introduction to Robotics

ENB448 Signal Processing and Filtering

ENB452 Advanced Power Systems Analysis

ENB453 Power Equipment and Utilisation

ENB456 Energy

ENB457 Controls, Systems and Applications

ENB458 Modern Control Systems

Course structure - For students commencing in 2009 (Maths B and Maths 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.

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

MAB220 Computational Mathematics 1

Year 2, Semester 1

ENB240 Introduction To Electronics

ENB246 Engineering Problem Solving

MAB210 Statistical Modelling 1

MAB311 Advanced Calculus

Year 2, Semester 2

BEB200 Introducing Sustainability

ENB243 Linear Circuits and Systems

ENB244 Microprocessors and Digital Systems

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

MAB414 Applied Statistics 2

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

Mathematics elective (Level 2)

BEB100 Introducing Professional Learning

Year 4, Semester 1

ENB301 Instrumentation and Control
 ENB340 Power Systems and Machines
 ENB342 Signals, Systems and Transforms
 Mathematics elective (Level 2)

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 4, Semester 2

ENB345 Advanced Design and Professional Practice
 ENB346 Digital Communications
 ENB458 Modern Control Systems
 Mathematics elective (Level 3)

Year 2, Semester 1

ENB240 Introduction To Electronics
 ENB246 Engineering Problem Solving
 MAB220 Computational Mathematics 1
 MAB311 Advanced Calculus

Year 5, Semester 1

BEB701 Work Integrated Learning 1
 BEB801 Project 1
 Electrical Engineering Selective
 Mathematics elective (Level 3)

Year 2, Semester 2

ENB243 Linear Circuits and Systems
 ENB244 Microprocessors and Digital Systems
 MAB413 Differential Equations
 Mathematics elective (Level 2 or 3)

Year 5, Semester 2

BEB802 Project 2
 ENB344 Industrial Electronics
 Mathematics elective (Level 3)
 Mathematics elective (Level 3)

Year 3, Semester 1

ENB242 Introduction To Telecommunications
 ENB350 Real-time Computer-based Systems
 MAB312 Linear Algebra
 MAB314 Statistical Modelling 2

Electrical Engineering Selectives

ENB339 Introduction to Robotics
 ENB440 RF Techniques and Modern Applications
 ENB441 Applied Image Processing
 ENB445 RF Communication Technologies
 ENB446 Wireless Communications
 ENB448 Signal Processing and Filtering
 ENB452 Advanced Power Systems Analysis
 ENB453 Power Equipment and Utilisation
 ENB454 Power System Management
 ENB455 Power Electronics
 ENB456 Energy
 ENB457 Controls, Systems and Applications
 INB353 Wireless and Mobile Networks
 INB860 Computational Intelligence for Control and Embedded Systems

Year 3, Semester 2

ENB245 Introduction To Design and Professional Practice
 ENB352 Communication Environments For Embedded Systems
 MAB414 Applied Statistics 2
 Mathematics elective (Level 2)

Course structure - For students commencing in 2007 & 2008 (Maths B and Maths 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.

Year 4, Semester 1

ENB301 Instrumentation and Control
 ENB340 Power Systems and Machines
 ENB342 Signals, Systems and Transforms
 Mathematics elective (Level 2)

Year 4, Semester 2

ENB345 Advanced Design and Professional Practice
 ENB346 Digital Communications
 ENB458 Modern Control Systems
 Mathematics elective (Level 3)

Year 5, Semester 1

BEB701 Work Integrated Learning 1
 BEB801 Project 1

Year 1, Semester 1

Electrical Engineering Selective
Mathematics elective (Level 3)

Year 5, Semester 2

BEB802 Project 2
ENB344 Industrial Electronics
Mathematics elective (Level 3)
Mathematics elective (Level 3)

Electrical Engineering Selectives

ENB339 Introduction to Robotics
ENB440 RF Techniques and Modern Applications
ENB441 Applied Image Processing
ENB445 RF Communication Technologies
ENB446 Wireless Communications
ENB448 Signal Processing and Filtering
ENB452 Advanced Power Systems Analysis
ENB453 Power Equipment and Utilisation
ENB454 Power System Management
ENB455 Power Electronics
ENB456 Energy
ENB457 Controls, Systems and Applications
INB353 Wireless and Mobile Networks
INB860 Computational Intelligence for Control and Embedded Systems

Course structure - For students commencing in 2006 (Maths B and Maths 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.

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
MAB220 Computational Mathematics 1

Year 2, Semester 1

ENB240 Introduction To Electronics
ENB246 Engineering Problem Solving
MAB210 Statistical Modelling 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 2)

Year 4, Semester 2

ENB345 Advanced Design and Professional Practice
ENB346 Digital Communications
ENB458 Modern Control Systems
Mathematics elective (Level 3)

Year 5, Semester 1

BEB701 Work Integrated Learning 1
BEB801 Project 1
Electrical Engineering Selective
Mathematics elective (Level 3)

Year 5, Semester 2

BEB802 Project 2
ENB344 Industrial Electronics
Mathematics elective (Level 3)
Mathematics elective (Level 3)

Electrical Engineering Selectives

ENB440 RF Techniques and Modern Applications
ENB441 Applied Image Processing
ENB445 RF Communication Technologies
ENB446 Wireless Communications

ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB454	Power System Management
ENB455	Power Electronics
ENB456	Energy
ENB457	Controls, Systems and Applications
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

Potential Careers:

Electrical and Computer Engineer, Electrical Engineer, Mathematician, Statistician.

Bachelor of Engineering (Electrical)/Bachelor of Business (IF28)

Year offered: 2011

Admissions: No

CRICOS code: 027278C

Course duration (full-time): 5 years (10 semesters)

Domestic fees (indicative): 2011: CSP \$3,878 per semester (indicative)

International Fees (indicative): 2011: \$11,500 (indicative) per semester

Domestic Entry: This course is only taught to continuing students only.

International Entry: This course is only taught to continuing students only.

QTAC code: 419532

Past rank cut-off: 80

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 480

Standard credit points per full-time semester: 48 (average)

Course coordinator: Dr R.Mahalinga-Iyer (Engineering); Director of Undergraduate Studies, QUT Business School; email: bus@qut.edu.au

Discipline coordinator: Dr Jasmine Banks (Engineering); Ms Ros Kent (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr John Chen (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Kavvoos Mohannak (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)

Campus: Gardens Point

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This course has been discontinued. Currently enrolled students should check with the relevant Faculty for course progression and enrolment advice.

Doctor of Philosophy (Built Environment, Engineering) (IF49)

Year offered: 2011

Admissions: Yes

CRICOS code: 006367J

Course duration (full-time): 3 years (max. 4 years)

Course duration (part-time): 6 years (max. 8 years)

Domestic fees (indicative): Aust citizens or PRs will be awarded an RTS/RTA place or a QUT sponsorship for tuition fees. If you exceed the max time, you will be charged - 2011: \$11,875 per semester (indicative)

International Fees (indicative): 2011: \$13,125 (indicative) per semester

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 Semester. 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 (eg. mechanical/manufacturing/medical engineering; transport engineering; structures and designs; electronic systems and informatics environment) and across the University community (eg. Institute for Health and Biomedical Innovation (IHBI), 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 is 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.

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, 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: 2011

Admissions: No

CRICOS code: 006384G

Course duration (full-time): 5 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative)
per semester

International Fees (indicative): 2011: \$12,000 (indicative)
per semester

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: For information on acquiring
assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 480

Standard credit points per full-time semester: 48

Course coordinator: Dr R.Mahalinga-Iyer (Engineering),
Mr Richard Thomas (Science and Technology)

Discipline coordinator: Dr Jasmine Banks (Engineering)

Campus: Gardens Point

DISCONTINUATION

As of Semester 1 2009, this course has been discontinued
and replaced by IX54 Bachelor of Engineering
(Electrical)/Bachelor of Information Technology.

Further Information

For Further information about this course, please contact
the following:

Engineering Coordinator

Phone +61 7 3138 2678

Fax +61 7 3138 1515

Email: bee.enquiries@qut.com

Science and Technology Coordinator

Phone: 3138 9353

Email: enquiry.scitech@qut.edu.au

Potential Careers:

Computer Systems Engineer, Electrical and Computer
Engineer, Electrical Engineer, Internet Professional.

Bachelor of Engineering (Software Engineering) (IX25)

Year offered: 2011

Admissions: No

CRICOS code: 053707D

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$12,000 (indicative) per semester

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: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

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

DISCONTINUATION

As of Semester 1 2009, IX25 has been discontinued.

Software Engineering is now available in the EN40 Bachelor of Engineering course.

Special Note

Any remaining students should seek advice from the Course Coordinator regarding their remaining course program.

Further Information

For further information about this course, please contact:

Phone +61 7 3138 2678

Fax +61 7 3138 1515

Email: bee.enquiries@qut.com

Bachelor of Business / Bachelor of Engineering (Civil, Electrical or Mechanical) (IX28)

Year offered: 2011

Admissions: Yes

CRICOS code: 061649J

Course duration (full-time): 5 years

Domestic fees (indicative): 2011: CSP \$4,209 per semester (indicative)

International Fees (indicative): 2011: \$11,250 (indicative) per semester

Domestic Entry: February

International Entry: February

QTAC code: 419532

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Course coordinator: Dr R.Mahalinga-Iyer (Engineering); Director of Undergraduate Studies, QUT Business School; email: bus@qut.edu.au

Discipline coordinator: Dr Jasmine Banks (Engineering); Ms Sherrina Buckby (Accountancy); ASPRO Gayle Kerr (Advertising); Dr Tommy Tang (Economics); Dr John Chen (Finance); Mr Greg Southey (Human Resource Management); Mr Michael Cox (International Business); Dr Henri Burgers (Management); Mr Bill Proud (Marketing); and Ms Amisha Mehta (Public Relations)

Campus: Gardens Point

Recommended Study

Chemistry, Maths C and Physics.

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 of accountancy, advertising, economics, finance, human resource management, international business, management, marketing or public relations.

Professional Recognition

This degree meets the requirements for membership of Engineers Australia.

Business component: Students may be eligible for membership to a number of professional bodies depending

on choice of major and unit selection. Details on professional recognition can be found under the individual majors of the Bachelor of Business (BS05).

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 as part of the Work Integrated Learning unit, before graduating.

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).

Course Design

Students are required to complete 480 credit points comprised of 288 credit points from the Bachelor of Engineering program and 192 credit points from the Bachelor of Business program. Students supplement the engineering component of this program with the 96 credit point Business School Core units in the Bachelor of Business program together with a 96 credit point Major in one of the following: Accountancy, Advertising, Economics, Finance, Human Resource Management, International Business, Management, Marketing or Public Relations.

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Important Information

QUT Business School rules and procedures are outlined in the Business Undergraduate Guidelines booklet.

Other useful information can be found on Student Services website.

Further Information

Faculty of Built Environment and Engineering: Phone +61 7 3138 1993, Fax +61 7 3138 1516, email:

bee.enquiries@qut.edu.au

QUT Business School: Phone +61 7 3138 2050, Fax +61 7 3138 1055, email: bus@qut.edu.au

Course structure - Civil Engineering - Students who commenced in 2011

Year 1, Semester 1

ENB110 Engineering Statics and Materials

MAB125 Foundations of Engineering Mathematics
OR

MAB126 Mathematics for Engineering 1
Business Unit
Business Unit

Year 1, Semester 2

ENB120	Electrical Energy and Measurements
MAB126	Mathematics for Engineering 1 OR
MAB127	Mathematics for Engineering 2 Business Unit Business Unit

Year 2, Semester 1

ENB100	Engineering and Sustainability
ENB130	Mechanical and Thermal Energy
ENB270	Engineering Mechanics of Materials
ENB273	Civil Materials

Year 2, Semester 2

ENB150	Introducing Engineering Design
ENB200	Introducing Engineering Systems Business Unit Business Unit

Year 3, Semester 1

ENB272	Geotechnical Engineering 1
MAB233	Engineering Mathematics 3 Business Unit Business Unit

Year 3, Semester 2

ENB275	Project Engineering 1
ENB276	Structural Engineering 1
ENB280	Hydraulic Engineering
ENB371	Geotechnical Engineering 2

Year 4, Semester 1

ENB372	Design and Planning of Highways
ENB375	Structural Engineering 2 Business Unit Business Unit

Year 4, Semester 2

ENB376	Transport Engineering Business Unit Business Unit Business Unit
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Year 5, Semester 1

BEB801	Project 1
ENB378	Water Engineering
ENB471	Design of Concrete Structures and Foundations Business Unit

Year 5, Semester 2

BEB701	Work Integrated Learning 1
ENB476	Civil Engineering Design Project Business Unit Business Unit

Course structure - Electrical Engineering - Students who commenced in 2011

Year 1, Semester 1

ENB130	Mechanical and Thermal Energy
MAB125	Foundations of Engineering Mathematics OR
MAB126	Mathematics for Engineering 1 Business Unit Business Unit

Year 1, Semester 2

ENB120	Electrical Energy and Measurements
MAB126	Mathematics for Engineering 1 OR
MAB127	Mathematics for Engineering 2 Business Unit Business Unit

Year 2, Semester 1

ENB100	Engineering and Sustainability
ENB110	Engineering Statics and Materials
ENB250	Electrical Circuits
MAB127	Mathematics for Engineering 2 OR
MAB233	Engineering Mathematics 3

Year 2, Semester 2

ENB150	Introducing Engineering Design
ENB200	Introducing Engineering Systems Business Unit Business Unit

Year 3, Semester 1

ENB240	Introduction To Electronics
ENB246	Engineering Problem Solving Business Unit Business Unit

Year 3, Semester 2

ENB242	Introduction To Telecommunications
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice

Year 4, Semester 1

ENB301 Instrumentation and Control
 ENB340 Power Systems and Machines
 OR
 MAB233 Engineering Mathematics 3
 Business Unit
 Business Unit

Year 4, Semester 2

ENB345 Advanced Design and Professional Practice
 Business Unit
 Business Unit
 Business Unit

Year 5, Semester 1

BEB701 Work Integrated Learning 1
 BEB801 Project 1
 ENB340 Power Systems and Machines
 OR
 Electrical Engineering Selective
 Business Unit

Year 5, Semester 2

BEB802 Project 2
 ENB344 Industrial Electronics
 Business Unit
 Business Unit

Electrical Engineering Selectives

ENB339 Introduction to Robotics
 ENB448 Signal Processing and Filtering
 ENB452 Advanced Power Systems Analysis
 ENB453 Power Equipment and Utilisation
 ENB456 Energy
 ENB457 Controls, Systems and Applications
 ENB458 Modern Control Systems

Course structure - Mechanical Engineering - Students who commenced 2011

Year 1, Semester 1

ENB110 Engineering Statics and Materials
 MAB125 Foundations of Engineering Mathematics
 OR
 MAB126 Mathematics for Engineering 1
 Business Unit
 Business Unit

Year 1, Semester 2

ENB120 Electrical Energy and Measurements
 MAB126 Mathematics for Engineering 1

OR
 MAB127 Mathematics for Engineering 2
 Business Unit
 Business Unit

Year 2, Semester 1

ENB100 Engineering and Sustainability
 ENB130 Mechanical and Thermal Energy
 ENB212 Strength of Materials
 MAB127 Mathematics for Engineering 2
 OR
 MAB233 Engineering Mathematics 3

Year 2, Semester 2

ENB150 Introducing Engineering Design
 ENB200 Introducing Engineering Systems
 Business Unit
 Business Unit

Year 3, Semester 1

ENB211 Dynamics
 ENB231 Materials and Manufacturing 1
 Business Unit
 Business Unit

Year 3, Semester 2

ENB205 Electrical and Computer Engineering
 ENB215 Fundamentals of Mechanical Design
 ENB221 Fluid Mechanics
 ENB331 Materials and Manufacturing 2

Year 4, Semester 1

BEB701 Work Integrated Learning 1
 ENB222 Thermodynamics 1
 Business Unit
 Business Unit

Year 4, Semester 2

MAB233 Engineering Mathematics 3
 OR
 Mechanical Engineering Selective
 Business Unit
 Business Unit
 Business Unit

Year 5, Semester 1

BEB801 Project 1
 ENB316 Design of Machine Elements
 ENB311 Stress Analysis
 OR
 ENB312 Dynamics of Machinery

OR
ENB421 Thermodynamics 2
Business Unit

Year 5, Semester 2

BEB802 Project 2
ENB313 Automatic Control
OR
ENB317 Design and Maintenance of Machinery
OR
ENB321 Fluids Dynamics
Business Unit
Business Unit

Mechanical Engineering Selectives

ENB314 Industrial Noise and Vibration
ENB333 Operations Management
ENB336 Industrial Engineering
ENB339 Introduction to Robotics
ENB422 Energy Management
ENB423 Heating, Ventilation and Air-Conditioning
ENB432 Engineering Asset Management and Maintenance
ENB433 Plant and Process Design
ENB434 Tribology
ENB435 Computer Integrated Manufacturing

Course structure - Accountancy

Year 1 Semester 1

BSB110 Accounting
BSB115 Management

Year 1 Semester 2

BSB111 Business Law and Ethics
BSB124 Working in Business

Year 2 Semester 1

No QUT Business School units studies this semester.

Year 2 Semester 2

AYB200 Financial Accounting
AYB225 Management Accounting

Year 3 Semester 1

AYB221 Computerised Accounting Systems
EFB210 Finance 1

Year 3 Semester 2

No QUT Business School units studies this semester.

Year 4 Semester 1

AYB230 Corporations Law
AYB321 Strategic Management Accounting

Year 4 Semester 2

AYB219 Taxation Law
AYB301 Audit and Assurance
AYB340 Company Accounting

Year 5 Semester 1

BSB113 Economics

Year 5 Semester 2

AYB311 Financial Accounting Issues
BSB126 Marketing

Course structure - Advertising

Year 1 Semester 1

BSB113 Economics
BSB126 Marketing

Year 1 Semester 2

BSB110 Accounting
BSB115 Management

Year 2 Semester 1

No QUT Business School units studies this semester.

Year 2 Semester 2

AMB220 Advertising Theory and Practice
BSB124 Working in Business

Year 3 Semester 1

AMB200 Consumer Behaviour
AMB201 Marketing and Audience Research

Year 3 Semester 2

No QUT Business School units studies this semester.

Year 4 Semester 1

AMB318 Advertising Copywriting
AMB319 Media Planning

Year 4 Semester 2

AMB320 Advertising Management
AMB330 Advertising Planning Portfolio
BSB111 Business Law and Ethics

Year 5 Semester 1

AMB339 Advertising Campaigns

Year 5 Semester 2

BSB119 Global Business
MGB223 Entrepreneurship and Innovation

Course structure - Economics

Year 1 Semester 1

BSB113 Economics
BSB115 Management

Year 1 Semester 2

MGB223 Entrepreneurship and Innovation
BSB124 Working in Business

Year 2 Semester 1

No QUT Business School units studies this semester.

Year 2 Semester 2

BSB110 Accounting
EFB223 Economics 2

Year 3 Semester 1

EFB330 Intermediate Macroeconomics
EFB331 Intermediate Microeconomics

Year 3 Semester 2

No QUT Business School units studies this semester.

Year 4 Semester 1

BSB119 Global Business
Economics Choice Unit

Year 4 Semester 2

BSB111 Business Law and Ethics
EFB222 Quantitative Methods For Economics and Finance

Year 5 Semester 1

BSB126 Marketing
Economics Choice Unit

Year 5 Semester 2

EFB338 Contemporary Application of Economic Theory
Economics Choice Unit

Economics Choice Units

Choose any three (3) of the following:

EFB332 Applied Behavioural Economics
EFB333 Introductory Econometrics
EFB334 Environmental Economics and Policy
EFB336 International Economics
EFB337 Game Theory and Applications

Course structure - Finance

Year 1 Semester 1

BSB113 Economics
BSB115 Management

Year 1 Semester 2

BSB124 Working in Business
BSB126 Marketing

Year 2 Semester 1

No QUT Business School units studies this semester.

Year 2 Semester 2

BSB110 Accounting
MGB223 Entrepreneurship and Innovation

Year 3 Semester 1

EFB201 Financial Markets
EFB210 Finance 1

Year 3 Semester 2

No QUT Business School units studies this semester.

Year 4 Semester 1

BSB111 Business Law and Ethics
EFB307 Finance 2

Year 4 Semester 2

EFB222 Quantitative Methods For Economics and Finance
EFB223 Economics 2
EFB312 International Finance

Year 5 Semester 1

EFB335 Investments

Year 5 Semester 2

BSB119 Global Business
EFB340 Finance Capstone

Course structure - Human Resource Management

Year 1 Semester 1

BSB113 Economics
BSB115 Management

Year 1 Semester 2

BSB111 Business Law and Ethics
BSB124 Working in Business

Year 2 Semester 1

No QUT Business School units studies this semester.

Year 2 Semester 2

MGB223 Entrepreneurship and Innovation
MGB200 Leading Organisations

Year 3 Semester 1

MGB207 Human Resource Issues and Strategy
MGB220 Business Research Methods

Year 3 Semester 2

No QUT Business School units studies this semester.

Year 4 Semester 1

MGB331 Learning and Development in Organisations
MGB339 Performance and Reward

Year 4 Semester 2

BSB110 Accounting
MGB201 Contemporary Employment Relations
MGB320 Recruitment and Selection

Year 5 Semester 1

BSB126 Marketing

Year 5 Semester 2

BSB119 Global Business
MGB370 Personal and Professional Development

Course structure - International Business

Year 1 Semester 1

BSB119 Global Business
BSB126 Marketing

Year 1 Semester 2

BSB110 Accounting
BSB115 Management

Year 2 Semester 1

No QUT Business School units studies this semester.

Year 2 Semester 2

BSB113 Economics
MGB223 Entrepreneurship and Innovation

Year 3 Semester 1

AMB210 Importing and Exporting
AYB227 International Accounting

Year 3 Semester 2

No QUT Business School units studies this semester.

Year 4 Semester 1

AMB303 International Logistics
MGB225 Intercultural Communication and Negotiation Skills

Year 4 Semester 2

AMB336 International Marketing
BSB111 Business Law and Ethics
EFB240 Finance for International Business

Year 5 Semester 1

AMB369 International Business Strategy

Year 5 Semester 2

BSB124 Working in Business
MGB340 International Business in the Asia-Pacific

Course structure - Management

Year 1 Semester 1

BSB113 Economics
BSB115 Management

Year 1 Semester 2

BSB124 Working in Business
BSB126 Marketing

Year 2 Semester 1

No QUT Business School units studies this semester.

Year 2 Semester 2

BSB110 Accounting
BSB119 Global Business

Year 3 Semester 1

BSB111 Business Law and Ethics
MGB200 Leading Organisations

Year 3 Semester 2

No QUT Business School units studies this semester.

Year 4 Semester 1

MGB201 Contemporary Employment Relations
MGB210 Managing Operations

Year 4 Semester 2

MGB223 Entrepreneurship and Innovation
MGB225 Intercultural Communication and Negotiation Skills
MGB309 Strategic Management

Year 5 Semester 1

MGB324 Managing Business Growth

Year 5 Semester 2

MGB310 Sustainability in A Changing Environment

MGB335 Project Management

Course structure - Marketing

Year 1 Semester 1

BSB113 Economics

BSB126 Marketing

Year 1 Semester 2

BSB111 Business Law and Ethics

BSB115 Management

Year 2 Semester 1

No QUT Business School units studies this semester.

Year 2 Semester 2

BSB110 Accounting

BSB124 Working in Business

Year 3 Semester 1

AMB201 Marketing and Audience Research

AMB240 Marketing Planning and Management

Year 3 Semester 2

No QUT Business School units studies this semester.

Year 4 Semester 1

AMB200 Consumer Behaviour

AMB340 Services Marketing

Year 4 Semester 2

AMB202 Integrated Marketing Communication

AMB335 E-marketing Strategies

MGB223 Entrepreneurship and Innovation

Year 5 Semester 1

AMB336 International Marketing

Year 5 Semester 2

AMB359 Strategic Marketing

BSB119 Global Business

Course structure - Public Relations

Year 1 Semester 1

BSB119 Global Business

BSB126 Marketing

Year 1 Semester 2

BSB110 Accounting

BSB115 Management

Year 2 Semester 1

No QUT Business School units studies this semester.

Year 2 Semester 2

AMB201 Marketing and Audience Research

BSB113 Economics

Year 3 Semester 1

AMB263 Introduction To Public Relations

AMB264 Public Relations Techniques

Year 3 Semester 2

No QUT Business School units studies this semester.

Year 4 Semester 1

AMB372 Public Relations Planning

AMB373 Corporate Communication

Year 4 Semester 2

AMB374 Global Public Relations Cases

AMB375 Public Relations Management

MGB223 Entrepreneurship and Innovation

Year 5 Semester 1

AMB379 Public Relations Campaigns

Year 5 Semester 2

BSB111 Business Law and Ethics

BSB124 Working in Business

Course structure - Civil Engineering - Students who commenced in 2010

Year 1, Semester 1

ENB110 Engineering Statics and Materials

MAB125 Foundations of Engineering Mathematics
OR

MAB126 Mathematics for Engineering 1

Business Unit

Business Unit

Year 1, Semester 2

ENB130 Mechanical and Thermal Energy

MAB126 Mathematics for Engineering 1
OR

MAB127 Mathematics for Engineering 2

Business Unit

Business Unit

Year 2, Semester 1

ENB100 Engineering and Sustainability

ENB270 Engineering Mechanics of Materials

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

ENB273 Civil Materials
Business Unit

OR

MAB180 Engineering Mathematics 1B
Business Unit
Business Unit

Year 2, Semester 2

ENB120 Electrical Energy and Measurements

ENB150 Introducing Engineering Design

ENB200 Introducing Engineering Systems
Business Unit

Year 1, Semester 2

ENB102 Engineering Mechanics 2

MAB132 Engineering Mathematics 2A
OR

MAB182 Engineering Mathematics 2B
Business Unit
Business Unit

Year 3, Semester 1

ENBXXX TBA

ENB280 Hydraulic Engineering
Business Unit
Business Unit

Year 2, Semester 1

ENB100 Engineering and Sustainability

ENB104 Engineering Materials

ENB271 Design of Structural Timber and Earthworks

MAB233 Engineering Mathematics 3

Year 3, Semester 2

BEB701 Work Integrated Learning 1

ENB272 Geotechnical Engineering 1

ENB275 Project Engineering 1

MAB233 Engineering Mathematics 3

Year 2, Semester 2

ENB200 Introducing Engineering Systems
Business Unit
Business Unit
Business Unit

Year 4, Semester 1

ENB276 Structural Engineering 1

ENB371 Geotechnical Engineering 2
Business Unit
Business Unit

Year 3, Semester 1

ENB273 Civil Materials

ENB280 Hydraulic Engineering
Business Unit
Business Unit

Year 4, Semester 2

ENB375 Structural Engineering 2
Business Unit
Business Unit
Business Unit

Year 3, Semester 2

ENB272 Geotechnical Engineering 1

ENB274 Design of Environmentally Sustainable Systems

ENB275 Project Engineering 1
Business Unit

Year 5, Semester 1

BEB801 Project 1

ENB372 Design and Planning of Highways

ENB378 Water Engineering
Business Unit

Year 4, Semester 1

ENB276 Structural Engineering 1

ENB371 Geotechnical Engineering 2
Business Unit
Business Unit

Year 5, Semester 2

ENB376 Transport Engineering

ENB471 Design of Concrete Structures and Foundations
Business Unit
Business Unit

Year 4, Semester 2

ENB375 Structural Engineering 2
Business Unit
Business Unit
Business Unit

Course structure - Civil Engineering - Students who commenced in 2009

Year 1, Semester 1

ENB101 Engineering Mechanics 1

MAB131 Engineering Mathematics 1A

Year 5, Semester 1

BEB801 Project 1

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

ENB372 Design and Planning of Highways

ENB378 Water Engineering
Business Unit

Year 5, Semester 2

BEB701 Work Integrated Learning 1

ENB376 Transport Engineering

ENB377 Water and Waste Water Treatment
Engineering

ENB471 Design of Concrete Structures and
Foundations

Course structure - Civil Engineering - Students who commenced in 2007 & 2008

Year 1, Semester 1

ENB101 Engineering Mechanics 1

MAB131 Engineering Mathematics 1A
OR

MAB180 Engineering Mathematics 1B
Business Unit
Business Unit

Year 1, Semester 2

ENB102 Engineering Mechanics 2

MAB132 Engineering Mathematics 2A
OR

MAB182 Engineering Mathematics 2B
Business Unit
Business Unit

Year 2, Semester 1

BEB100 Introducing Professional Learning

ENB104 Engineering Materials

ENB271 Design of Structural Timber and Earthworks

MAB233 Engineering Mathematics 3

Year 2, Semester 2

ENB201 Fluid Mechanics
Business Unit
Business Unit
Business Unit

Year 3, Semester 1

ENB272 Geotechnical Engineering 1

ENB273 Civil Materials
Business Unit
Business Unit

Year 3, Semester 2

ENB200 Introducing Engineering Systems
OR (prior to 2009)

BEB200 Introducing Sustainability

ENB274 Design of Environmentally Sustainable
Systems

ENB276 Structural Engineering 1
Business Unit

Year 4, Semester 1

ENB372 Design and Planning of Highways

ENB375 Structural Engineering 2
Business Unit
Business Unit

Year 4, Semester 2

ENB371 Geotechnical Engineering 2
Business Unit
Business Unit
Business Unit

Year 5, Semester 1

BEB801 Project 1

ENB378 Water Engineering

ENB471 Design of Concrete Structures and
Foundations
Business Unit

Year 5, Semester 2

BEB701 Work Integrated Learning 1

ENB275 Project Engineering 1

ENB376 Transport Engineering

ENB377 Water and Waste Water Treatment
Engineering

Course structure - Electrical Engineering - Students who commenced in 2010

Year 1, Semester 1

ENB120 Electrical Energy and Measurements

MAB125 Foundations of Engineering Mathematics
OR

MAB126 Mathematics for Engineering 1
Business Unit
Business Unit

Year 1, Semester 2

ENB130 Mechanical and Thermal Energy

MAB126 Mathematics for Engineering 1
OR

MAB127 Mathematics for Engineering 2
Business Unit
Business Unit

Year 2, Semester 1

ENB100 Engineering and Sustainability

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

ENB110 Engineering Statics and Materials
 ENB250 Electrical Circuits
 MAB127 Mathematics for Engineering 2
 OR
 MAB233 Engineering Mathematics 3

Business Unit

Year 2, Semester 2

ENB150 Introducing Engineering Design
 ENB200 Introducing Engineering Systems
 Business Unit
 Business Unit

Year 3, Semester 1

ENB240 Introduction To Electronics
 ENB246 Engineering Problem Solving
 Business Unit
 Business Unit

Year 3, Semester 2

ENB242 Introduction To Telecommunications
 ENB243 Linear Circuits and Systems
 ENB244 Microprocessors and Digital Systems
 ENB245 Introduction To Design and Professional Practice

Year 4, Semester 1

ENB301 Instrumentation and Control
 ENB340 Power Systems and Machines
 OR
 MAB233 Engineering Mathematics 3
 Business Unit
 Business Unit

Year 4, Semester 2

ENB345 Advanced Design and Professional Practice
 Business Unit
 Business Unit
 Business Unit

Year 5, Semester 1

BEB701 Work Integrated Learning 1
 BEB801 Project 1
 ENB340 Power Systems and Machines
 OR
 Electrical Engineering Selective
 Business Unit

Year 5, Semester 2

BEB802 Project 2
 ENB344 Industrial Electronics
 Business Unit

Electrical Engineering Selectives

ENB339 Introduction to Robotics
 ENB448 Signal Processing and Filtering
 ENB452 Advanced Power Systems Analysis
 ENB453 Power Equipment and Utilisation
 ENB456 Energy
 ENB457 Controls, Systems and Applications
 ENB458 Modern Control Systems

Course structure - Electrical Engineering - Students who commenced in 2009

Year 1, Semester 1

BEB100 Introducing Professional Learning
 MAB131 Engineering Mathematics 1A
 OR
 MAB180 Engineering Mathematics 1B
 Business Unit
 Business Unit

Year 1, Semester 2

ENB103 Electrical Engineering
 MAB132 Engineering Mathematics 2A
 OR
 MAB182 Engineering Mathematics 2B
 Business Unit
 Business Unit

Year 2, Semester 1

ENB240 Introduction To Electronics
 ENB242 Introduction To Telecommunications
 ENB246 Engineering Problem Solving
 PCB150 Physics 1H

Year 2, Semester 2

ENB200 Introducing Engineering Systems
 Business Unit
 Business Unit
 Business Unit

Year 3, Semester 1

ENB340 Power Systems and Machines
 MAB233 Engineering Mathematics 3
 Business Unit
 Business Unit

Year 3, Semester 2

ENB243 Linear Circuits and Systems
 ENB244 Microprocessors and Digital Systems

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

ENB245 Introduction To Design and Professional Practice
Business Unit

Course structure - Electrical Engineering - Students who commenced in 2007 & 2008

Year 4, Semester 1

ENB301 Instrumentation and Control
ENB342 Signals, Systems and Transforms
Business Unit
Business Unit

Year 1, Semester 1

BEB100 Introducing Professional Learning
MAB131 Engineering Mathematics 1A
OR
MAB180 Engineering Mathematics 1B
Business Unit
Business Unit

Year 4, Semester 2

ENB345 Advanced Design and Professional Practice
Business Unit
Business Unit
Business Unit

Year 1, Semester 2

ENB103 Electrical Engineering
MAB132 Engineering Mathematics 2A
OR
MAB182 Engineering Mathematics 2B
Business Unit
Business Unit

Year 5, Semester 1

BEB801 Project 1
ENB346 Digital Communications
Electrical Engineering Selective
Business Unit

Year 2, Semester 1

ENB240 Introduction To Electronics
ENB246 Engineering Problem Solving
MAB233 Engineering Mathematics 3
PCB136 Engineering Physics 1C

Year 5, Semester 2

BEB701 Work Integrated Learning 1
BEB802 Project 2
ENB344 Industrial Electronics
Electrical Engineering Selective

Year 2, Semester 2

ENB200 Introducing Engineering Systems
OR (prior to 2009)
BEB200 Introducing Sustainability
Business Unit
Business Unit
Business Unit

Electrical Engineering Selectives

ENB231 Materials and Manufacturing 1
ENB334 Design For Manufacturing
ENB339 Introduction to Robotics
ENB350 Real-time Computer-based Systems
ENB352 Communication Environments For Embedded Systems
ENB436 Mechatronics System Design
ENB440 RF Techniques and Modern Applications
ENB441 Applied Image Processing
ENB445 RF Communication Technologies
ENB446 Wireless Communications
ENB448 Signal Processing and Filtering
ENB452 Advanced Power Systems Analysis
ENB453 Power Equipment and Utilisation
ENB454 Power System Management
ENB455 Power Electronics
ENB456 Energy
ENB457 Controls, Systems and Applications
ENB458 Modern Control Systems
INB353 Wireless and Mobile Networks
INB860 Computational Intelligence for Control and Embedded Systems

Year 3, Semester 1

ENB242 Introduction To Telecommunications
ENB340 Power Systems and Machines
Business Unit
Business Unit

Year 3, Semester 2

ENB243 Linear Circuits and Systems
ENB244 Microprocessors and Digital Systems
ENB245 Introduction To Design and Professional Practice
Business Unit

Year 4, Semester 1

ENB301 Instrumentation and Control
ENB342 Signals, Systems and Transforms
Business Unit
Business Unit

Year 4, Semester 2

ENB345 Advanced Design and Professional Practice
 Business Unit
 Business Unit
 Business Unit

Year 5, Semester 1

BEB701 Work Integrated Learning 1
 BEB801 Project 1
 Electrical Engineering Selective
 Business Unit

Year 5, Semester 2

BEB802 Project 2
 ENB344 Industrial Electronics
 ENB346 Digital Communications
 Electrical Engineering Selective

Electrical Engineering Selectives

ENB231 Materials and Manufacturing 1
 ENB334 Design For Manufacturing
 ENB339 Introduction to Robotics
 ENB350 Real-time Computer-based Systems
 ENB352 Communication Environments For Embedded Systems
 ENB436 Mechatronics System Design
 ENB440 RF Techniques and Modern Applications
 ENB441 Applied Image Processing
 ENB445 RF Communication Technologies
 ENB446 Wireless Communications
 ENB448 Signal Processing and Filtering
 ENB452 Advanced Power Systems Analysis
 ENB453 Power Equipment and Utilisation
 ENB454 Power System Management
 ENB455 Power Electronics
 ENB456 Energy
 ENB457 Controls, Systems and Applications
 ENB458 Modern Control Systems
 INB353 Wireless and Mobile Networks
 INB860 Computational Intelligence for Control and Embedded Systems

Course structure - Mechanical Engineering - Students who commenced in 2010

Year 1, Semester 1

ENB110 Engineering Statics and Materials
 MAB125 Foundations of Engineering Mathematics
 OR
 MAB126 Mathematics for Engineering 1

Business Unit
 Business Unit

Year 1, Semester 2

ENB130 Mechanical and Thermal Energy
 MAB126 Mathematics for Engineering 1
 OR
 MAB127 Mathematics for Engineering 2
 Business Unit
 Business Unit

Year 2, Semester 1

ENB100 Engineering and Sustainability
 ENB212 Strength of Materials
 MAB127 Mathematics for Engineering 2
 OR
 MAB233 Engineering Mathematics 3
 Business Unit

Year 2, Semester 2

ENB120 Electrical Energy and Measurements
 ENB150 Introducing Engineering Design
 ENB200 Introducing Engineering Systems
 Business Unit

Year 3, Semester 1

ENB211 Dynamics
 ENB231 Materials and Manufacturing 1
 Business Unit
 Business Unit

Year 3, Semester 2

ENB205 Electrical and Computer Engineering
 ENB215 Fundamentals of Mechanical Design
 ENB221 Fluid Mechanics
 ENB331 Materials and Manufacturing 2

Year 4, Semester 1

BEB701 Work Integrated Learning 1
 ENB222 Thermodynamics 1
 Business Unit
 Business Unit

Year 4, Semester 2

MAB233 Engineering Mathematics 3
 OR
 Mechanical Engineering Selective
 Business Unit
 Business Unit
 Business Unit

Year 5, Semester 1

BEB801	Project 1
ENB316	Design of Machine Elements
ENB311	Stress Analysis
	OR
ENB312	Dynamics of Machinery
	OR
ENB421	Thermodynamics 2
	Business Unit

Year 5, Semester 2

BEB802	Project 2
ENB313	Automatic Control
	OR
ENB317	Design and Maintenance of Machinery
	OR
ENB321	Fluids Dynamics
	Business Unit
	Business Unit

Mechanical Engineering Selectives

ENB314	Industrial Noise and Vibration
ENB333	Operations Management
ENB336	Industrial Engineering
ENB339	Introduction to Robotics
ENB422	Energy Management
ENB423	Heating, Ventilation and Air-Conditioning
ENB432	Engineering Asset Management and Maintenance
ENB433	Plant and Process Design
ENB434	Tribology
ENB435	Computer Integrated Manufacturing

Course structure - Mechanical Engineering - Students who commenced in 2009

Year 1, Semester 1

BEB100	Introducing Professional Learning
MAB131	Engineering Mathematics 1A
	OR
MAB180	Engineering Mathematics 1B
	Business Unit
	Business Unit

Year 1, Semester 2

ENB104	Engineering Materials
MAB132	Engineering Mathematics 2A
	OR
MAB182	Engineering Mathematics 2B
	Business Unit

Business Unit

Year 2, Semester 1

ENB101	Engineering Mechanics 1
ENB120	Electrical Energy and Measurements
ENB231	Materials and Manufacturing 1
PCB150	Physics 1H

Year 2, Semester 2

ENB200	Introducing Engineering Systems
	Business Unit
	Business Unit
	Business Unit

Year 3, Semester 1

ENB211	Dynamics
ENB212	Strength of Materials
	Business Unit
	Business Unit

Year 3, Semester 2

ENB215	Fundamentals of Mechanical Design
ENB221	Fluid Mechanics
ENB331	Materials and Manufacturing 2
	Business Unit

Year 4, Semester 1

ENB222	Thermodynamics 1
MAB233	Engineering Mathematics 3
	Business Unit
	Business Unit

Year 4, Semester 2

ENB205	Electrical and Computer Engineering
	Business Unit
	Business Unit
	Business Unit

Year 5, Semester 1

BEB801	Project 1
ENB316	Design of Machine Elements
	Two of:
ENB311	Stress Analysis
ENB312	Dynamics of Machinery
ENB421	Thermodynamics 2

Year 5, Semester 2

BEB701	Work Integrated Learning 1
BEB802	Project 2
	One of:
ENB313	Automatic Control

ENB317 Design and Maintenance of Machinery

Business Unit

ENB321 Fluids Dynamics

Business Unit

Course structure - Mechanical Engineering - Students who commenced in 2008

Year 1, Semester 1

BEB100 Introducing Professional Learning

MAB131 Engineering Mathematics 1A
OR

MAB180 Engineering Mathematics 1B
Business Unit
Business Unit

Year 1, Semester 2

ENB104 Engineering Materials

MAB132 Engineering Mathematics 2A
OR

MAB182 Engineering Mathematics 2B
Business Unit
Business Unit

Year 2, Semester 1

ENB101 Engineering Mechanics 1

ENB231 Materials and Manufacturing 1

MAB233 Engineering Mathematics 3

PCB136 Engineering Physics 1C

Year 2, Semester 2

ENB103 Electrical Engineering

Business Unit

Business Unit

Business Unit

Year 3, Semester 1

ENB105 Electrical and Computer Engineering

ENB211 Dynamics

Business Unit

Business Unit

Year 3, Semester 2

ENB200 Introducing Engineering Systems

ENB102 Engineering Mechanics 2

ENB201 Fluid Mechanics

Business Unit

Year 4, Semester 1

BEB701 Work Integrated Learning 1

ENB311 Stress Analysis

Business Unit

Year 4, Semester 2

ENB215 Fundamentals of Mechanical Design

Business Unit

Business Unit

Business Unit

Year 5, Semester 1

BEB801 Project 1

ENB222 Thermodynamics 1

ENB312 Dynamics of Machinery

ENB316 Design of Machine Elements

Year 5, Semester 2

BEB802 Project 2

Business Unit

Choose two of:

ENB313 Automatic Control

ENB317 Design and Maintenance of Machinery

ENB321 Fluids Dynamics

Course structure - Mechanical Engineering - Students who commenced in 2007

Year 1, Semester 1

BEB100 Introducing Professional Learning

MAB131 Engineering Mathematics 1A
OR

MAB180 Engineering Mathematics 1B

Business Unit

Business Unit

Year 1, Semester 2

ENB104 Engineering Materials

MAB132 Engineering Mathematics 2A
OR

MAB182 Engineering Mathematics 2B

Business Unit

Business Unit

Year 2, Semester 1

ENB101 Engineering Mechanics 1

ENB231 Materials and Manufacturing 1

MAB233 Engineering Mathematics 3

PCB136 Engineering Physics 1C

Year 2, Semester 2

ENB103 Electrical Engineering

Business Unit

Business Unit

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

Business Unit

Year 3, Semester 1

ENB105 Electrical and Computer Engineering
ENB211 Dynamics

Business Unit
Business Unit

Year 3, Semester 2

BEB200 Introducing Sustainability
ENB102 Engineering Mechanics 2
ENB201 Fluid Mechanics

Business Unit

Year 4, Semester 1

BEB701 Work Integrated Learning 1
ENB311 Stress Analysis

Business Unit
Business Unit

Year 4, Semester 2

ENB215 Fundamentals of Mechanical Design

Business Unit
Business Unit
Business Unit

Year 5, Semester 1

BEB801 Project 1
ENB316 Design of Machine Elements
Choose two of:
ENB313 Automatic Control
ENB333 Operations Management
ENB432 Engineering Asset Management and Maintenance
ENB435 Computer Integrated Manufacturing

Year 5, Semester 2

BEB802 Project 2
ENB222 Thermodynamics 1
Business Unit
Choose one of:
ENB312 Dynamics of Machinery
ENB317 Design and Maintenance of Machinery
ENB321 Fluids Dynamics
ENB331 Materials and Manufacturing 2

Accountancy Major - Students who commenced in 2009

Year 1 Semester 1

BSB110 Accounting
BSB115 Management

Year 1 Semester 2

BSB123 Data Analysis
BSB126 Marketing

Year 2 Semester 1

No Faculty of Business units studies this semester.

Year 2 Semester 2

AYB200 Financial Accounting
AYB225 Management Accounting
BSB111 Business Law and Ethics

Year 3 Semester 1

AYB221 Computerised Accounting Systems
EFB210 Finance 1

Year 3 Semester 2

AYB219 Taxation Law

Year 4 Semester 1

AYB230 Corporations Law
AYB321 Strategic Management Accounting

Year 4 Semester 2

AYB301 Audit and Assurance
AYB340 Company Accounting
BSB113 Economics

Year 5 Semester 1

AYB311 Financial Accounting Issues

Accountancy Major - Students who commenced in 2007-2008

Year 1 Semester 1

BSB110 Accounting
BSB111 Business Law and Ethics

Year 1 Semester 2

BSB113 Economics
BSB122 now replaced by BSB123 Data Analysis

Year 2 Semester 1

No Faculty of Business units studies this semester.

Year 2 Semester 2

AYB200 Financial Accounting
AYB230 Corporations Law
BSB114 now replaced by BSB124 Working in Business

Year 3 Semester 1

AYB225 Management Accounting
AYB340 Company Accounting

Year 3 Semester 2

AYB221 Computerised Accounting Systems

Year 4 Semester 1

AYB301 Audit and Assurance

AYB311 Financial Accounting Issues

or

AYB321 Strategic Management Accounting

Year 4 Semester 2

AYB219 Taxation Law

EFB101 now replaced by EFB222 Quantitative Methods for Economics

EFB210 Finance 1

Year 5 Semester 1

BSB115 Management

Advertising Major - Students who commenced in 2007-2009

Year 1 Semester 1

BSB113 Economics

BSB126 Marketing

Year 1 Semester 2

BSB110 Accounting

BSB115 Management

Year 2 Semester 1

No Faculty of Business units studies this semester.

Year 2 Semester 2

BSB119 Global Business

BSB123 Data Analysis

BSB124 Working in Business

Year 3 Semester 1

AMB200 Consumer Behaviour

AMB220 Advertising Theory and Practice

Year 3 Semester 2

AMB201 Marketing and Audience Research

Year 4 Semester 1

AMB318 Advertising Copywriting

AMB319 Media Planning

Year 4 Semester 2

AMB320 Advertising Management

AMB330 Advertising Planning Portfolio

BSB111 Business Law and Ethics

Year 5 Semester 1

AMB339 Advertising Campaigns

Banking & Finance Major - Students who commenced in 2007-2008

Year 1 Semester 1

BSB113 Economics

BSB115 Management

Year 1 Semester 2

BSB124 Working in Business

BSB126 Marketing

Year 2 Semester 1

No Faculty of Business units studies this semester.

Year 2 Semester 2

BSB110 Accounting

BSB123 Data Analysis

BSB119 Global Business

Year 3 Semester 1

EFB210 Finance 1

EFB222 Quantitative Methods For Economics and Finance

Year 3 Semester 2

EFB307 Finance 2

Year 4 Semester 1

EFB333 Introductory Econometrics

EFB335 Investments

Year 4 Semester 2

EFB201 Financial Markets

EFB223 Economics 2

EFB312 International Finance

Year 5 Semester 1

BSB111 Business Law and Ethics

Economics Major - Students who commenced in 2009

Year 1 Semester 1

BSB113 Economics

BSB115 Management

Year 1 Semester 2

BSB123 Data Analysis

BSB124 Working in Business

Year 2 Semester 1

No Faculty of Business units studies this

semester.

Year 2 Semester 2

- BSB110 Accounting
- EFB222 Quantitative Methods For Economics and Finance
- EFB223 Economics 2

Year 3 Semester 1

- EFB330 Intermediate Macroeconomics
- EFB331 Intermediate Microeconomics

Year 3 Semester 2

Choice units or remaining Faculty Core Units

Year 4 Semester 1

Choice units or remaining Faculty Core Units
Choice units or remaining Faculty Core Units

Year 4 Semester 2

- EFB338 Contemporary Application of Economic Theory
- Choice units or remaining Faculty Core Units
- Choice units or remaining Faculty Core Units

Year 5 Semester 1

- BSB111 Business Law and Ethics

Choice Units

Choose any three of the following:

- EFB332 Applied Behavioural Economics
- EFB333 Introductory Econometrics
- EFB334 Environmental Economics and Policy
- EFB336 International Economics
- EFB337 Game Theory and Applications

Important Information

Please note: BSB119 and BSB126 are the remaining Faculty Core Units to be completed. Please check unit availability when selecting Choice units.

Economics Major - Students who commenced in 2007-2008

Year 1 Semester 1

- BSB113 Economics
- BSB115 Management

Year 1 Semester 2

- BSB114 now replaced by BSB124 Working in Business
- BSB110 Accounting

Year 2 Semester 1

No Faculty of Business units studies this semester.

Year 2 Semester 2

- BSB123 Data Analysis
- BSB119 Global Business
- EFB223 Economics 2

Year 3 Semester 1

- EFB330 Intermediate Macroeconomics
- EFB331 Intermediate Microeconomics

Year 3 Semester 2

- EFB222 Quantitative Methods For Economics and Finance

Year 4 Semester 1

- BSB111 Business Law and Ethics
- EFB333 Introductory Econometrics

Year 4 Semester 2

- EFB328 Substitute any Level 3 EFB3xx unit
- EFB329 Contemporary Applications of Economics Theory
- EFB336 International Economics

Year 5 Semester 1

- BSB126 Marketing

Finance Major - Students who commenced in 2009

Year 1 Semester 1

- BSB113 Economics
- BSB115 Management

Year 1 Semester 2

- BSB124 Working in Business
- BSB126 Marketing

Year 2 Semester 1

No Faculty of Business units studies this semester.

Year 2 Semester 2

- BSB110 Accounting
- BSB119 Global Business
- BSB123 Data Analysis

Year 3 Semester 1

- EFB210 Finance 1
- EFB222 Quantitative Methods For Economics and Finance

Year 3 Semester 2

- EFB307 Finance 2

Year 4 Semester 1

- EFB223 Economics 2

EFB335 Investments

Year 4 Semester 2

EFB201 Financial Markets
 EFB312 International Finance
 EFB340 Finance Capstone

Year 5 Semester 1

BSB111 Business Law and Ethics

Human Resource Management Major - Students who commenced in 2009

Year 1 Semester 1

BSB113 Economics
 BSB115 Management

Year 1 Semester 2

BSB124 Working in Business
 BSB126 Marketing

Year 2 Semester 1

No Faculty of Business units studies this semester.

Year 2 Semester 2

BSB110 Accounting
 BSB119 Global Business
 MGB223 Entrepreneurship and Innovation

Year 3 Semester 1

MGB201 Contemporary Employment Relations
 MGB207 Human Resource Issues and Strategy

Year 3 Semester 2

MGB200 Leading Organisations

Year 4 Semester 1

MGB331 Learning and Development in Organisations
 MGB339 Performance and Reward

Year 4 Semester 2

MGB220 Business Research Methods
 MGB320 Recruitment and Selection
 MGB370 Personal and Professional Development

Year 5 Semester 1

BSB111 Business Law and Ethics

International Business Major - Students who commenced in 2007-2009

Year 1 Semester 1

BSB119 Global Business
 BSB126 Marketing

Year 1 Semester 2

BSB110 Accounting
 BSB115 Management

Year 2 Semester 1

No Faculty of Business units studies this semester.

Year 2 Semester 2

BSB113 Economics
 BSB123 Data Analysis
 BSB124 Working in Business

Year 3 Semester 1

AYB227 International Accounting
 MGB225 Intercultural Communication and Negotiation Skills

Year 3 Semester 2

AMB210 Importing and Exporting

Year 4 Semester 1

AMB303 International Logistics
 AMB336 International Marketing

Year 4 Semester 2

AMB369 International Business Strategy
 EFB240 Finance for International Business
 MGB340 International Business in the Asia-Pacific

Year 5 Semester 1

BSB111 Business Law and Ethics

Management Major - Students who commenced in 2009

Year 1 Semester 1

BSB113 Economics
 BSB115 Management

Year 1 Semester 2

BSB124 Working in Business
 BSB126 Marketing

Year 2 Semester 1

No Faculty of Business units studies this semester.

Year 2 Semester 2

BSB119 Global Business
 BSB123 Data Analysis
 MGB200 Leading Organisations

Year 3 Semester 1

MGB210 Managing Operations
 MGB223 Entrepreneurship and Innovation

Year 3 Semester 2

MGB225 Intercultural Communication and Negotiation Skills

Year 4 Semester 1

MGB309 Strategic Management

MGB324 Managing Business Growth

Year 4 Semester 2

BSB110 Accounting

MGB310 Sustainability in A Changing Environment

MGB335 Project Management

Year 5 Semester 1

BSB111 Business Law and Ethics

Management Major - Students who commenced in 2007-2008

Year 1 Semester 1

BSB113 Economics

BSB115 Management

Year 1 Semester 2

BSB114 now replaced by BSB124 Working in Business

BSB126 Marketing

Year 2 Semester 1

No Faculty of Business units studies this semester.

Year 2 Semester 2

BSB111 Business Law and Ethics

MGB200 Leading Organisations

BSB122 now replaced by MGB201

MGB201 Contemporary Employment Relations

Year 3 Semester 1

MGB210 Managing Operations

MGB223 Entrepreneurship and Innovation

Year 3 Semester 2

MGB310 Sustainability in A Changing Environment

Year 4 Semester 1

MGB309 Strategic Management

Management Option Unit

Year 4 Semester 2

BSB119 Global Business

MGB335 Project Management

Management Option Unit

Year 5 Semester 1

BSB110 Accounting

Management Option Unit List:

Students must choose 2 of the following units. One must be a Level 3 unit:

MGB201 Contemporary Employment Relations

MGB218 Managing Business Growth

MGB225 Intercultural Communication and Negotiation Skills

MGB314 Organisational Consulting and Change

MGB370 Personal and Professional Development

Marketing Major - Students who commenced in 2009

Year 1 Semester 1

BSB113 Economics

BSB126 Marketing

Year 1 Semester 2

BSB111 Business Law and Ethics

BSB115 Management

Year 2 Semester 1

No Faculty of Business units studies this semester.

Year 2 Semester 2

BSB110 Accounting

BSB119 Global Business

BSB124 Working in Business

Year 3 Semester 1

AMB200 Consumer Behaviour

AMB201 Marketing and Audience Research

Year 3 Semester 2

AMB240 Marketing Planning and Management

Year 4 Semester 1

AMB336 International Marketing

AMB340 Services Marketing

Year 4 Semester 2

AMB202 Integrated Marketing Communication

AMB335 E-marketing Strategies

BSB123 Data Analysis

Year 5 Semester 1

AMB359 Strategic Marketing

Marketing Major - Students who commenced in 2007-2008

Year 1 Semester 1

BSB122 now replaced by BSB123 Data Analysis

BSB126 Marketing

Year 1 Semester 2

BSB114 now replaced by BSB124 Working in Business

BSB119 Global 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

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

AMB202 Integrated Marketing Communication

AMB340 Services Marketing

Year 4 Semester 2

BSB110 Accounting

AMB335 E-marketing Strategies

AMB252 Business Decision Making

or

IBB213 International Marketing

Year 5 Semester 1

AMB359 Strategic Marketing

Public Relations Major - Students who commenced in 2007-2009

Year 1 Semester 1

BSB119 Global Business

BSB126 Marketing

Year 1 Semester 2

BSB110 Accounting

BSB115 Management

Year 2 Semester 1

No Faculty of Business units studies this semester.

Year 2 Semester 2

AMB201 Marketing and Audience Research

BSB113 Economics

BSB124 Working in Business

Year 3 Semester 1

AMB263 Introduction To Public Relations

AMB264 Public Relations Techniques

Year 3 Semester 2

BSB111 Business Law and Ethics

Year 4 Semester 1

AMB372 Public Relations Planning

AMB373 Corporate Communication

Year 4 Semester 2

AMB374 Global Public Relations Cases

AMB375 Public Relations Management

BSB123 Data Analysis

Year 5 Semester 1

AMB379 Public Relations Campaigns

Potential Careers:

Account Executive, Accountant, Actuary, Administrator, Advertising Professional, Banker, Banking and Finance Professional, Business Analyst, Certified Practising Accountant, Corporate Secretary, Economist, Electrical and Computer Engineer, Electrical Engineer, Electronic Commerce Developer, Exchange Student, Financial Advisor/Analyst, Financial Project Manager, Funds Manager, Government Officer, Human Resource Developer, Human Resource Manager, International Business Specialist, Internet Professional, Investment Manager, Manager, Marketing Officer/Manager, Public Relations Officer/Consultant, Public Servant, Publishing Professional, Risk Manager, Software Engineer, Stockbroker, Web Designer.

Bachelor of Engineering (Electrical)/Bachelor of Information Technology (IX54)

Year offered: 2011

Admissions: Yes

CRICOS code: 006384G

Course duration (full-time): 5 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative)
per semester

International Fees (indicative): 2011: \$11,875 (indicative)
per semester

Domestic Entry: February

International Entry: February

QTAC code: 419512

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4,SA) and Maths B (4,SA)

Preparatory studies: For information on acquiring
assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 480

Course coordinator: Dr R.Mahalinga-Iyer (Engineering),
Mr Mike Roggenkamp (Science & Technology)

Discipline coordinator: Dr Jasmine Banks (Engineering),
Mr Richard Thomas (Information Technology Major)

Campus: Gardens Point

Overview

Electrical engineers design, install and maintain electrical, electronic, telecommunications and computing systems on behalf of government and private companies.

This double degree gives you the skills to become a computer and electronic engineer suited to the development and application of consumer electronics (like mobile devices, iPods, DVD players and CD players) and electronic and computer systems (like traffic lights, ATMs and mobile networks). The engineering component consists of studies in electronic systems engineering and integrates with the information technology component to give you a wide and advanced study of modern electronic and computing systems.

Career Outcomes

As a graduate you may find employment in areas such as communications, railways, electricity supply, hospitals, transport and in organisations that use electronics, electronic systems, computers and microprocessors to monitor, control, communicate and optimise processes and production in areas such as mining and aerospace.

Professional Recognition

This course meets the requirements for membership of Engineers Australia (EA). EA is a signatory to the Washington Accord, which permits graduates from accredited member courses to work in various countries across the world. This course is accredited by the Australian Computer Society (ACS). ACS accreditation is internationally recognised by the Seoul Accord.

Other Course Requirements

Bachelor of Engineering students are required to complete at least 60 days of industrial experience in an engineering environment approved by the course coordinator.

Cooperative Education Program

IT's Cooperative Education Program gives you the opportunity of 10-12 months paid industry placement during your course where you can integrate real experience with what you're learning in your degree. Companies that QUT's Coop Ed students have worked with include Energex, Boeing, CITEC, CSC Mining, Environmental Protection Agency, Dialog, UNITAB, RACQ and many Queensland Government departments. The Coop Ed Program is available to Australian citizens and permanent residents only.

Find out more about the Cooperative Education Program.

Pathways to Further Studies

In 2001, the Faculty introduced an accelerated Honours program to increase the number of Bachelor of Information Technology students continuing their studies to complete the Honours year. The program allowed selected high achieving students the opportunity to undertake one postgraduate unit in the final semester of their a BIT degree (or double degree) which would be counted both for completion of the degree and towards the Honours program. The program also provided students with the opportunity to commence their Honours studies over the Summer Semester.

An alternative to the Honours program is the Master of Information Technology (Research). Students who complete a BIT degree (or double degree) with a grade point average equal to, or greater than 5 (7 point scale) and who have decided against enrolling in an Honours program, could undertake this course. In addition, students may wish to enrol in the re-designed postgraduate coursework Masters which has ten specialisations allowing students to either extend their area of interest or specialise in other areas at the Masters level.

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Further Information

For further information about this course, please contact the following:

Engineering Coordinator

Phone +61 7 3138 1993

Fax +61 7 3138 1516

email: bee.enquiries@qut.edu.au

Science and Technology Coordinator

Phone +61 7 3138 2782

Fax +61 7 3138 2703
email: enquiry.scitech@qut.edu.au

Full-time Course structure – Students commencing in 2011

Year 1, Semester 1

- ENB100 Engineering and Sustainability
OR
- INB103 Industry Insights
- INB104 Building IT Systems
- INB101 Impact of IT
- MAB125 Foundations of Engineering Mathematics
OR
- MAB126 Mathematics for Engineering 1

Year 1, Semester 2

- ENB120 Electrical Energy and Measurements
- ENB200 Introducing Engineering Systems
- INB102 Emerging Technology
- MAB126 Mathematics for Engineering 1
OR
- MAB127 Mathematics for Engineering 2

Year 2, Semester 1

- ENB240 Introduction To Electronics
- ENB130 Mechanical and Thermal Energy
- ENB250 Electrical Circuits
- MAB127 Mathematics for Engineering 2
OR
- MAB233 Engineering Mathematics 3

Year 2, Semester 2

- ENB150 Introducing Engineering Design
- ENB242 Introduction To Telecommunications
- ENB243 Linear Circuits and Systems
IT Breadth Option Unit

Year 3, Semester 1

- ENB110 Engineering Statics and Materials
- ENB340 Power Systems and Machines
IT Breadth Option Unit
IT Breadth Option Unit

Year 3, Semester 2

- ENB244 Microprocessors and Digital Systems
- ENB245 Introduction To Design and Professional Practice
- ENB343 Fields, Transmission and Propagation
IT Breadth Option Unit

Year 4, Semester 1

- ENB301 Instrumentation and Control
- INB301 The Business of IT
- ENB342 Signals, Systems and Transforms
- INB201 Scalable Systems Development

Year 4, Semester 2

- ENB344 Industrial Electronics
- ENB345 Advanced Design and Professional Practice
- MAB233 Engineering Mathematics 3
OR
- Electrical Engineering Selective
IT Specialist Option Unit

Year 5, Semester 1

- ENB346 Digital Communications
OR
- ENB350 Real-time Computer-based Systems
- BEB801 Project 1
OR
- INB309-1 Major Project
IT Specialist Option Unit
IT Specialist Option Unit

Year 5, Semester 2

- BEB701 Work Integrated Learning 1
- BEB802 Project 2
OR
- INB309-2 Major Project
IT Specialist Option Unit
Electrical Engineering Selective

Electrical Engineering Selectives

- ENB339 Introduction to Robotics
- ENB448 Signal Processing and Filtering
- ENB452 Advanced Power Systems Analysis
- ENB453 Power Equipment and Utilisation
- ENB456 Energy
- ENB457 Controls, Systems and Applications
- ENB458 Modern Control Systems

Full-time Course structure – Students commencing in 2010

Year 1, Semester 1

- ENB100 Engineering and Sustainability
OR
- INB103 Industry Insights
- ENB120 Electrical Energy and Measurements
- INB104 Building IT Systems
- MAB125 Foundations of Engineering Mathematics

OR
MAB126 Mathematics for Engineering 1

Electrical Engineering Selective
IT Specialist Option Unit

Year 1, Semester 2

ENB200 Introducing Engineering Systems
ENB130 Mechanical and Thermal Energy
INB102 Emerging Technology
MAB126 Mathematics for Engineering 1
OR
MAB127 Mathematics for Engineering 2

Year 2, Semester 1

ENB240 Introduction To Electronics
ENB246 Engineering Problem Solving
OR
INB101 Impact of IT
ENB250 Electrical Circuits
MAB127 Mathematics for Engineering 2
OR
MAB233 Engineering Mathematics 3

Year 2, Semester 2

ENB150 Introducing Engineering Design
ENB242 Introduction To Telecommunications
ENB243 Linear Circuits and Systems
IT Breadth Option Unit

Year 3, Semester 1

ENB110 Engineering Statics and Materials
ENB241 Software Systems Design
IT Breadth Option Unit
IT Breadth Option Unit

Year 3, Semester 2

ENB244 Microprocessors and Digital Systems
ENB245 Introduction To Design and Professional Practice
ENB343 Fields, Transmission and Propagation
IT Breadth Option Unit

Year 4, Semester 1

ENB301 Instrumentation and Control
ENB340 Power Systems and Machines
ENB342 Signals, Systems and Transforms
INB201 Scalable Systems Development

Year 4, Semester 2

ENB344 Industrial Electronics
ENB345 Advanced Design and Professional Practice
MAB233 Engineering Mathematics 3
OR

Year 5, Semester 1

ENB346 Digital Communications
OR
ENB350 Real-time Computer-based Systems
BEB801 Project 1
OR
INB309-1 Major Project
INB301 The Business of IT
IT Specialist Option Unit

Year 5, Semester 2

BEB701 Work Integrated Learning 1
BEB802 Project 2
OR
INB309-2 Major Project
IT Specialist Option Unit
IT Specialist Option Unit

Electrical Engineering Selectives

ENB339 Introduction to Robotics
ENB448 Signal Processing and Filtering
ENB452 Advanced Power Systems Analysis
ENB453 Power Equipment and Utilisation
ENB456 Energy
ENB457 Controls, Systems and Applications
ENB458 Modern Control Systems

Full-time Course structure – Students commencing in 2009

Year 1, Semester 1

BEB100 Introducing Professional Learning
OR
INB103 Industry Insights
INB104 Building IT Systems
MAB131 Engineering Mathematics 1A
OR
MAB180 Engineering Mathematics 1B
PCB136 Engineering Physics 1C

Year 1, Semester 2

BEB200 Introducing Sustainability
ENB103 Electrical Engineering
INB102 Emerging Technology
MAB132 Engineering Mathematics 2A
OR
MAB182 Engineering Mathematics 2B

Year 2, Semester 1

ENB101	Engineering Mechanics 1
ENB104	Engineering Materials
ENB240	Introduction To Electronics
ENB242	Introduction To Telecommunications

Year 2, Semester 2

ENB243	Linear Circuits and Systems
INB101	Impact of IT
INB270	Programming
	IT Breadth Option Unit

Year 3, Semester 1

ENB340	Power Systems and Machines
ENB342	Signals, Systems and Transforms
MAB233	Engineering Mathematics 3
	IT Breadth Option Unit

Year 3, Semester 2

ENB241	Software Systems Design
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice
	IT Breadth Option Unit

Year 4, Semester 1

ENB301	Instrumentation and Control
ENB350	Real-time Computer-based Systems
INB201	Scalable Systems Development
	IT Specialist Option Unit

Year 4, Semester 2

ENB343	Fields, Transmission and Propagation
ENB344	Industrial Electronics
ENB345	Advanced Design and Professional Practice
ENB346	Digital Communications

Year 5, Semester 1

BEB701	Work Integrated Learning 1
BEB801	Project 1
	OR
INB309-1	Major Project
INB301	The Business of IT
	IT Specialist Option Unit

Year 5, Semester 2

BEB802	Project 2
	OR
INB309-2	Major Project
	IT Specialist Option Unit
	IT Specialist Option Unit

Electrical Engineering Selective

Electrical Engineering Selectives

ENB231	Materials and Manufacturing 1
ENB334	Design For Manufacturing
ENB339	Introduction to Robotics
ENB350	Real-time Computer-based Systems
ENB352	Communication Environments For Embedded Systems
ENB436	Mechatronics System Design
ENB440	RF Techniques and Modern Applications
ENB441	Applied Image Processing
ENB445	RF Communication Technologies
ENB446	Wireless Communications
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB453	Power Equipment and Utilisation
ENB454	Power System Management
ENB455	Power Electronics
ENB456	Energy
ENB457	Controls, Systems and Applications
ENB458	Modern Control Systems
INB353	Wireless and Mobile Networks
INB860	Computational Intelligence for Control and Embedded Systems

IT Breadth Option Unit List

IT Breadth Option Units

You must complete four (4) units from the following list. You should not commence these units until you have completed INB101, INB102, INB103 and INB104.

INB120	Corporate Systems
INB210	Databases
INB220	Business Analysis
INB250	Foundations of Computer Science
INB251	Networks
INB255	Security
INB270	Programming
INB271	The Web
INB272	Interaction Design

IT Specialisation Option Unit List

IT Specialist Option Units

You must complete four (4) units from the following list. Please ensure you have completed a minimum of 36 credit points (3 units) of IT Breadth Option Units before commencing these units. The units are grouped in areas to assist you in focusing your studies.

1. BUSINESS PROCESS MANAGEMENT:

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

INB320	Business Process Modelling	INB382	Real Time Rendering Techniques
INB321	Business Process Management	INB860	Computational Intelligence for Control and Embedded Systems
INB322	Information Systems Consulting		
INB123	Project Management Practice		
2.	DATA WAREHOUSING:		
INB340	Database Design		
INB341	Software Development With Oracle		
INB342	Enterprise Data Mining and Data Analysis		
INB343	Advanced Data Mining and Data Warehousing		
INB344	Search Engine Technology		
3.	DIGITAL ENVIRONMENTS:		
INB345	Mobile Devices		
INB346	Enterprise 2.0		
INB347	Web 2.0 Applications		
INB335	Information Resources		
4.	ENTERPRISE SYSTEMS:		
INB123	Project Management Practice		
INB221	Technology Management		
INB311	Enterprise Systems		
INB312	Enterprise Systems Applications		
5.	NETWORK SYSTEMS:		
INB350	Internet Protocols and Services		
INB351	Unix Network Administration		
INB352	Network Planning		
INB353	Wireless and Mobile Networks		
6.	SOFTWARE ENGINEERING:		
INB370	Software Development		
INB371	Data Structures and Algorithms		
INB372	Agile Software Development		
INB374	Enterprise Software Architecture		
7.	WEB TECHNOLOGIES:		
INB313	Electronic Commerce Site Development		
INB373	Web Application Development		
INB374	Enterprise Software Architecture		
INB385	Multimedia Systems		
INB386	Advanced Multimedia Systems		
8.	UNGROUPED:		
INB204	Special Topic 1		
INB205	Special Topic 2		
INB304	Special Topic 3		
INB305	Special Topic 4		
INB306	Project 1		
INB307	Project 2		
INB308	Project 3		
INB355	Cryptology and Protocols		
INB365	Systems Programming		
INB381	Modelling and Animation Techniques		

Potential Careers:

Computer Systems Engineer, Electrical and Computer Engineer, Electrical Engineer, Engineer.

Graduate Certificate in Research Commercialisation (IX97)

Year offered: 2011

Admissions: Yes

Course duration (full-time): 1 semester. Subject to maximum time limit of 1 years.

Course duration (part-time): 2 semesters. Subject to maximum time limit of 2 years.

Domestic fees (indicative): 2011: \$10,000 (indicative) per semester

International Fees (indicative): 2011: \$11,250 (indicative) per semester

Course coordinator: Professor Paul Burnett

Campus: Internet

IX97 - Graduate Certificate in Research Commercialisation

Course structure

IFP100	Knowledge Transfer and Research Commercialisation
IFP101	Leadership and Workplace Communication
IFP102	Project Management and Research
IFP103	Public Policy and Research
IFP104	Entrepreneurial Foundations
IFP105	Principles and Practice of Research Management
IFP106	Managing Research Careers
IFP107	Global Sustainability

Potential Careers:

Academic, Administrator, Arts Administrator, Biochemist, Bioengineer, Bioinformatician, Biologist, Biomechanical Engineer, Biomedical Engineer, Biotechnologist, Biotechnology Business/Investment Analyst, Business Analyst, Business Development Officer, Cell Biologist, Civil Engineer, Contract Administrator, Financial Advisor/Analyst, Government Officer, International Business Specialist, Marine Scientist, Market Research Manager, Marketing Officer/Manager, Mathematician, Microbiologist, Policy Officer, Public Servant, Scientist, Social Scientist, Urban Designer, Visual Artist, Web Designer.

Master of Research and Development Management (IX99)

Year offered: 2011

Admissions: Yes

Course duration (full-time): 3 semesters.

Course duration (part-time): 6 semesters.

Domestic fees (indicative): 2011: \$10,000 (indicative) per semester

International Fees (indicative): 2011: \$11,250 per semester

Course coordinator: Professor Paul Burnett

Campus: Internet

Entry Requirements

The minimum entry requirement for this course is a four year undergraduate degree or three years plus either an honours year or postgraduate coursework year in any discipline. Applicants who do not meet these academic requirements may be eligible to enter the course on the basis of professional activities completed in research management, research commercialisation or related fields that satisfies the course coordinator.

Important Note

This course is an online course and there is no requirement for a face-to-face session.

Course Enquiries

research.enrolment@qut.edu.au

This course is offered jointly by the 5 ATN universities - Curtin University of Technology ; Queensland University of Technology; RMIT University; University of South Australia ; University of Technology Sydney

Full-time students

Full-time students should enrol in IFP100, IFP105, IFP108, IFP109, IFP110 and 7 other units to complete 144 credit points in three semesters.

Part-time students

Part-time students can enrol in one or two units per semester for up to six semesters maximum.

Early Exit Options

Graduate Certificate and Diploma exit points are available following completion of four and eight units.

Advanced Standing

Students with appropriate prior qualifications and/or professional experience may apply for advanced standing of up to 48CP towards the Master of R&D Management. Recognition for concurrent Professional Development activities may be possible. Registered members of professional societies may be eligible to receive advanced standing for approved professional development activities completed during enrolment in the award.

Concurrent Enrolment

Research students are allowed to enrol concurrently in the Graduate Certificate and in their research course subject to

the approval of the Research Degrees Committee.

Research students may apply for leave of absence from their research course for the period of full time enrolment in the Graduate Certificate.

For further information relating to enrolment into a Research and Development Course, including pathways, please refer to Research and Development Courses - Enrolment website

Course structure

IFP100	Knowledge Transfer and Research Commercialisation
IFP101	Leadership and Workplace Communication
IFP102	Project Management and Research
IFP103	Public Policy and Research
IFP104	Entrepreneurial Foundations
IFP105	Principles and Practice of Research Management
IFP106	Managing Research Careers
IFP107	Global Sustainability
IFP108	Strategic Issues in Research Management
IFP109	Contexts For Research & Development Management
IFP110	R&D Management Project 1
IFP111	R&D Management Project 2

Potential Careers:

Academic, Administrator, Biochemist, Bioengineer, Bioinformatician, Biologist, Biomechanical Engineer, Biomedical Engineer, Biotechnologist, Biotechnology Business/Investment Analyst, Business Analyst, Business Development Officer, Cell Biologist, Civil Engineer, Contract Administrator, Financial Advisor/Analyst, Government Officer, International Business Specialist, Marine Scientist, Market Research Manager, Marketing Officer/Manager, Mathematician, Microbiologist, Policy Officer, Public Servant, Scientist, Social Scientist, Urban Designer, Visual Artist, Web Designer.

Bachelor of Engineering (Infomechatronics) (ME40)

Year offered: 2011

Admissions: No

CRICOS code: 037550J

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative)
per semester

International Fees (indicative): 2011: \$11,750 (indicative)
per semester

Domestic Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

International Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

QTAC code: 412502

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.

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

Special Note

This course has been discontinued. Any remaining students should seek advice from the Course Coordinator regarding their remaining course program.

Further Information

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

Potential Careers:

Manager, Manufacturer, Mechanical Engineer.

Bachelor of Engineering (Mechanical) (ME41)

Year offered: 2011

Admissions: No

CRICOS code: 003490G

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative)
per semester

International Fees (indicative): 2011: \$12,375 (indicative)
per semester

Domestic Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

International Entry: This course is open to continuing students only. NO NEW OFFERS MADE AFTER 2005.

QTAC code: 412502

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.

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

Special Note

This course has been discontinued. Any remaining students should seek advice from the Course Coordinator regarding their remaining course program.

Further Information

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

Potential Careers:

Mechanical Engineer.

**Bachelor of Engineering (Mechanical)
Conversion Program from Bachelor of
Technology ME36/ME37 (ME41)**

Year offered: 2011

Admissions: No

CRICOS code: 003490G

Course duration (full-time): 1.5 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative)
per semester

International Fees (indicative): 2011: \$12,375 (indicative)
per semester

Domestic Entry: This course is open to continuing students
only. NO NEW OFFERS MADE AFTER 2005.

International Entry: This course is open to continuing
students only. NO NEW OFFERS MADE AFTER 2005.

QTAC code: 412502

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.

OP Guarantee: Yes

Total credit points: 144

Course coordinator: Dr R.Mahalinga-Iyer

Discipline coordinator: Dr Gary Chadwick

Campus: Gardens Point

Special Note

This course has been discontinued. Any remaining students
should seek advice from the Course Coordinator regarding
their remaining course program.

Further information

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

Potential Careers:

Engineering Technologist, Mechanical Engineer, Technical
Officer.

Graduate Diploma in Landscape Architecture (PS66)

Year offered: 2011

Admissions: No

CRICOS code: 003478D

Course duration (full-time): 1 year BBlT Env (L'scape Arch) graduates; 2 years other graduates

Course duration (part-time): 2 years BBlT Env (L'scape Arch) graduates; 4 years (other graduates)

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$11,125 (indicative) per semester

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 Mark Ho (Please refer all course enquiries to Course Leader.)

Discipline coordinator: Dr Kathi Holt-Damant (Course Leader)

Campus: Gardens Point

Special Note

This course has been discontinued. Any remaining students should seek advice from the Course Coordinator regarding their remaining course program.

Further Information

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

Potential Careers:

Landscape Architect.

University Study Abroad Certificate (U080)

Year offered: 2011

Admissions: Yes

CRICOS code: 050556E

Course duration (full-time): One Semester

International Fees (indicative): 2011: \$9,450 per semester (flat fee)

Campus: Gardens Point and Kelvin Grove

Course Description

The QUT Study Abroad Certificate is awarded to students who complete one semester of an approved study program. To be eligible, you must successfully complete credit points with a minimum grade of 4 in each unit. These subjects can be used for 48 academic credit at your home institution (subject to approval by the home institution).

What can I study?

You can select from a comprehensive range of QUT subjects and custom-design your program to suit your interests and meet the requirements of your home university. You can choose from over 2200 units, including well over 300 pre-approved units for Study Abroad and Exchange students, in Built Environment and Engineering, Business, Creative Industries, Education, Health, Law, Justice and Science and Technology.

Entry Requirements

To be eligible for the Study Abroad program you need:

- a minimum one year of full-time study at a recognised university (this criteria applies to a majority of applicants however, high school students from some countries may meet the entry requirements).
- a GPA (Grade Point Average) of 2.5 or better (on a 4-point scale) or equivalent.
- an English Language Proficiency level in accordance with QUT requirements* if English is not your first language (QUT requirements are an IELTS overall score of 6.5 with no less than 6.0 in the sub-bands, or a TOEFL score of 575, or a computerised TOEFL score of 230).

* You may be exempt from taking a formal test if your secondary or post-secondary studies were conducted entirely in English and you have passed an English language subject or one or more Communication subjects.

If students meet academic entry requirements but do not meet English requirements please email studyabroad@qut.edu.au for alternative entry options.

Accounting and Finance

Accounting and Finance- Semester 1

AYB114	Business Technologies
AYB115	Governance Issues and Fraud
EFB201	Financial Markets

EFB210	Finance 1
BSB110	Accounting

Accounting and Finance- Semester 2

AYB250	Personal Financial Planning
EFB201	Financial Markets
EFB210	Finance 1
BSB110	Accounting

Advertising and Marketing

Advertising and Marketing- Semester 1

AMB120	Bridging Cultures
AMB210	Importing and Exporting
AMB220	Advertising Theory and Practice
AMB263	Introduction To Public Relations
AMB264	Public Relations Techniques
BSB126	Marketing

Advertising and Marketing- Semester 2

AMB120	Bridging Cultures
AMB210	Importing and Exporting
AMB220	Advertising Theory and Practice
AMB252	Business Decision Making
AMB263	Introduction To Public Relations
AMB264	Public Relations Techniques
BSB126	Marketing

General Business

General Business- Semester 1

BSB110	Accounting
BSB111	Business Law and Ethics
BSB113	Economics
BSB115	Management
BSB119	Global Business
BSB123	Data Analysis
BSB124	Working in Business
AMB120	Bridging Cultures
BSB126	Marketing

General Business- Semester 2

BSB110	Accounting
BSB111	Business Law and Ethics
BSB113	Economics
BSB115	Management
BSB119	Global Business
BSB123	Data Analysis
BSB124	Working in Business
AMB120	Bridging Cultures

Corporate Systems Management

Corporate Systems Management- Semester 1

INB103	Industry Insights
INB120	Corporate Systems
INB122	Organisational Databases
INB220	Business Analysis
INB221	Technology Management
INB312	Enterprise Systems Applications
INB321	Business Process Management
INB322	Information Systems Consulting

Corporate Systems Management- Semester 2

INB103	Industry Insights
INB123	Project Management Practice
INB124	Information Systems Development
INB210	Databases
INB313	Electronic Commerce Site Development
INB320	Business Process Modelling
INB342	Enterprise Data Mining and Data Analysis

Creative Industries Foundation

Foundation- Semester 1

KKB101	Creative Industries: People and Practices
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Foundation- Semester 2

KKB102	Creative Industries: Making Connections
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Creative Writing

Creative Writing- Semester 1

KWB101	Introduction to Creative Writing
KWB102	Media Writing
KWB103	Persuasive Writing
KWB104	Creative Writing: the Short Story
KWB107	Creative Non-Fiction
KWB207	Great Books: Creative Writing Classics
KWB211	Stylistics and Poetics

KWB102	Media Writing
KWB104	Creative Writing: the Short Story
KWB106	Corporate Writing and Editing
KWB206	Youth and Children's Writing

Dance

Dance- Semester 1

KDB105	Architecture of the Body
KDB110	Deconstructing Dance in History

Dance- Semester 2

KDB106	Dance Analysis
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KDB204	Australian Dance
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Drama

Drama- Semester 1

KTB101	20th Century Performance
KTB102	Process Drama
KTB103	Performing Skills 1: Character and Scene
KTB204	Understanding Performance

Drama- Semester 2

KTB104	Performance Innovation
KTB106	Performing Skills 2: Style and Form

Education - General

Education - Semester 1

EDB004	Teaching and Learning Studies 4: Inclusive Education
EDB036	Introduction To Education

Education - Semester 2

EDB003	Teaching and Learning Studies 3: Practising Education
EDB041	Indigenous Australia: Country, Kin and Culture

Education: Cultural and Language Studies

Education: Cultural and Language Studies- Semester 1

CLB001	Records Management
CLB049	The Global Teacher
CLB050	Movies and Popular Culture
CLB321	Writing Workshop
CLB321	Writing Workshop
CLB403	Gender And Sexuality Issues For Teachers
CLB442	Teaching of Writing
CLB452	Media Literacy And The School

Education: Cultural and Language Studies- Semester 2

CLB002	Computer Applications in BCT
CLB003	Administrative Procedures
CLB004	Foundation: Language Design and Theory
CLB005	Foundation: Wellness and Active Citizenship
CLB006	Teaching Reading and Writing
CLB320	Studies In Language
CLB323	Teaching Adolescent Literature
CLB347	Teaching English as an Additional Language
CLB441	Children's Literature
EDB001	Teaching and Learning Studies 1: Teaching in New Times
EDB007	Culture Studies: Indigenous Education

Education: Early Childhood

Education: Early Childhood- Semester 1

EAB001	Early Childhood Foundations 1: Historical and Comparative Perspectives of EC Education
EAB005	Inclusion in Early Childhood Settings
EAB006	Leadership and Management in Early Childhood Services
EAB008	Early Childhood Language, Literacies and Communication I
EAB013	Early Childhood Society Environment and Health Education
EAB016	Research in Early Childhood Education
EAB027	Early Childhood Mathematics Education 1: Birth to Six Years
EDB006	Learning Networks

http://www.studentservices.qut.edu.au/enrol/course/spec_req/bluecard.jsp

Field Studies- Secondary Education

EDB002	Teaching and Learning Studies 2: Development and Learning
EDB031	Secondary Field Studies 1 Plus 2 Curriculum Studies Units from the following list (corresponding with your approved teaching areas)
CLB051	Business Education Curriculum Studies 1
MDB015	Computing Curriculum Studies 1
CLB018	English Curriculum Studies 1
CLB021	English as a Second Language Curriculum Studies 1
CLB024	Film and Media Curriculum Studies 1
HMB292	Health Education Curriculum Studies 1
PUB343	Home Economics Curriculum Studies 1
CLB036	LOTE Curriculum Studies 1
MDB021	Mathematics Curriculum Studies 1
HMB231	Physical Education Curriculum Studies 1
MDB031	Science Education Curriculum Studies 1
CLB054	Social Education Curriculum Studies 1

Education: Early Childhood- Semester 2

EAB002	Early Childhood Foundations 2: Families and Childhoods in EC Education and Care
EAB003	Development and Learning in Early Childhood
EAB011	Early Childhood Curriculum: Arts 1
EAB015	Early Childhood Science and Technology Education
EAB021	Early Childhood Health, Safety, Nutrition and Wellness Education
EAB022	Early Childhood Science Education
EAB023	Mathematical Explorations in Early Childhood
EAB028	Early Childhood Mathematics Education 2: Four to 8 Years
EAB361	Storytelling In Early Childhood
EAB363	Creating Curriculum With Young Children

Field Studies- Primary Education

EDB002	Teaching and Learning Studies 2: Development and Learning
EDB021	Primary Field Studies 1: Development and Learning in the Field
KKB202	Teaching Primary Dance and Drama
MDB006	Teaching Primary Science

Education Field Studies

Important Information

Field studies are only available in Semester 1 each year.

To be eligible to participate in field studies (school-based teaching practicum), Study Abroad students must be accepted into and undertake the appropriate set of units as listed below. Students must be willing to travel to and be based in a rural or remote Queensland school for a 20-day practicum placement. Travel and living costs while on practicum are not covered by tuition fees. Due to high demand, QUT is unable to provide practicum placements to Study Abroad students in the greater Brisbane region.

Study Abroad students who wish to undertake Field Studies in Education must also obtain a Blue Card before their placement begins. A Blue Card confirms that you have passed a screening of your criminal history (the 'Working with Children Check') and have been approved to work with children and young people under 18 years of age. Because Blue Card processing can take 10-12 weeks, students should submit a Blue Card application with their Study Abroad application form. More information about Blue Cards is available at

Field Studies- Early Childhood Education

EDB011	Early Childhood Field Studies 1: Development and Learning in the Field
EAB013	Early Childhood Society Environment and Health Education
EAB027	Early Childhood Mathematics Education 1: Birth to Six Years

Education: Learning and Professional Studies

Education: Learning and Professional Studies- Semester 1

SPB018	Teaching Strategies
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Education: Learning and Professional Studies- Semester 2

SPB008	Middle Years Students and Schools
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Education: Mathematics, Science and Technology

Education: Mathematics, Science and Technology- Semester 1

MDB001	Foundation: Scientific and Quantitative Literacy
MDB004	Teaching Primary ICT
MDB005	Teaching Primary Design and Technology

MDB006	Teaching Primary Science
MDB120	Mathematics Curriculum and Pedagogies
MDB349	Excursions in Mathematical Reasoning
MDB388	Numeracy in Games of Skill and Chance
MDB391	Earth And Space

Education: Mathematics, Science and Technology- Semester 2

MDB002	Teaching Primary Mathematics 1
MDB030	Understanding and Educating Gifted Learners
MDB349	Excursions in Mathematical Reasoning
MDB397	Digital Media in Education
MDB454	Science, Technology and Society

Engineering Design

Engineering Design- Semester 1

DAB110	Architectural Design 1
DAB325	Architecture in the 20th Century
DAB330	Integrated Technologies 1
DAB525	Architecture and the City
DEB101	Introducing Design
DEB102	Introducing Design History
DLB130	Landscape Design 1
DLB310	Landscape Design 3
DLB330	Landscape Ecology
DLB510	Landscape Design 5
DLB525	History and Criticism of Landscape Design
DLB530	Landscape Construction 2
DNB101	Industrial Design 1
DNB302	Computer Aided Industrial Design
DNB303	Manufacturing Technology
DNB502	Industrial Design History, Theory and Criticism
DNB702	Human-centred Design Innovation
DTB101	Interior Design 1
DTB302	Colour Studies
DTB303	Technical Design
DTB502	Environments in Transition

Engineering Design- Semester 2

DAB210	Architectural Design 2
DAB220	Placemaking in Architecture
DAB420	Architecture, Culture and Space
DAB435	Architectural Technology 1
DEB201	Digital Communication
DEB601	Collaborative Design
DLB210	Landscape Design 2
DLB230	Landscape Horticulture
DLB430	Landscape Construction 1

DLB645	Landscape Practice and Law
DLB810	Landscape Planning and Policy
DNB201	Industrial Design 2
DNB202	Product Usability
DNB402	Socio-cultural Studies
DNB602	New Product Development
DTB201	Interior Design 2
DTB202	Design Technology
DTB402	Interior Systems
DTB403	Human Environment
DTB602	Design in Society

Engineering Systems

Engineering Systems- Semester 1

ENB211	Dynamics
ENB231	Materials and Manufacturing 1
ENB240	Introduction To Electronics
ENB242	Introduction To Telecommunications
ENB245	Introduction To Design and Professional Practice
ENB246	Engineering Problem Solving
ENB272	Geotechnical Engineering 1
ENB273	Civil Materials
ENB277	Construction Engineering Law
ENB301	Instrumentation and Control
ENB311	Stress Analysis
ENB315	Motor Racing Vehicle Design
ENB316	Design of Machine Elements
ENB319	Biomechanical Engineering Design
ENB331	Materials and Manufacturing 2
ENB333	Operations Management
ENB343	Fields, Transmission and Propagation
ENB348	Aircraft Systems and Flight Control
ENB350	Real-time Computer-based Systems
ENB372	Design and Planning of Highways
ENB375	Structural Engineering 2
ENB378	Water Engineering
ENB379	Transport Engineering and Planning Applications
ENB380	Environmental Law and Assessment
ENB381	Civil Engineering Construction
ENB384	Design of Masonry Structures
ENB421	Thermodynamics 2
ENB432	Engineering Asset Management and Maintenance
ENB435	Computer Integrated Manufacturing
ENB436	Mechatronics System Design
ENB441	Applied Image Processing

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

ENB443	Space Technology
ENB451	Aerospace Radio and Radar Systems
ENB455	Power Electronics
ENB471	Design of Concrete Structures and Foundations
ENB473	Design and Construction of Multi-storey Buildings
ENB478	Advanced Water Engineering
ENB485	Advanced Geotechnical Engineering Practice

Engineering Systems- Semester 2

ENB103	Electrical Engineering
ENB121	Aerodynamics
ENB201	Fluid Mechanics
ENB215	Fundamentals of Mechanical Design
ENB222	Thermodynamics 1
ENB241	Software Systems Design
ENB243	Linear Circuits and Systems
ENB244	Microprocessors and Digital Systems
ENB245	Introduction To Design and Professional Practice
ENB274	Design of Environmentally Sustainable Systems
ENB275	Project Engineering 1
ENB276	Structural Engineering 1
ENB312	Dynamics of Machinery
ENB318	Biomechanical Engineering Systems
ENB321	Fluids Dynamics
ENB322	Biofluids
ENB334	Design For Manufacturing
ENB335	Modelling and Simulation For Medical Engineers
ENB336	Industrial Engineering
ENB338	Biomaterials
ENB344	Industrial Electronics
ENB346	Digital Communications
ENB347	Modern Flight Control Systems
ENB352	Communication Environments For Embedded Systems
ENB355	Advanced Systems Design
ENB356	Military Combat Electronics
ENB373	Design and Construction of Steel Structures
ENB376	Transport Engineering
ENB377	Water and Waste Water Treatment Engineering
ENB384	Design of Masonry Structures
ENB422	Energy Management
ENB437	Health Legislation in the Medical Environment
ENB444	Spacecraft Guidance and Navigation
ENB446	Wireless Communications

ENB447	Navigation Systems For Aircraft
ENB448	Signal Processing and Filtering
ENB448	Signal Processing and Filtering
ENB452	Advanced Power Systems Analysis
ENB457	Controls, Systems and Applications
ENB458	Modern Control Systems
ENB472	Project Engineering 2
ENB474	Finite Element Methods
ENB481	Civil Engineering Project Management

Entertainment

Entertainment- Semester 1

KWB102	Media Writing
KXB101	Introduction to Entertainment
KXB201	Entertainment Practice: Balancing Creativity and Business

Entertainment- Semester 2

KXB102	Global Entertainment
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Fashion

Fashion- Semester 1

KFB103	Introduction to Fashion
KFB107	Drawing for Fashion
KFB206	Fashion and Modernity

Fashion- Semester 2

KFB106	Unspeakable Beauty: A History of Fashion and Style
KFB207	Contemporary Fashion

Film, TV and New Media

Film, TV and New Media- Semester 1

KPB101	Introduction to Film, TV and New Media Production
KPB104	Film and Television Production Resource Management
KPB109	Film and TV History
KPB113	TV and Film Text Analysis
KPB203	Australian Film

Film, TV and New Media- Semester 2

KPB101	Introduction to Film, TV and New Media Production
KPB110	The Movie, TV & New Media Business
KPB112	TV and Film Genres
KPB205	Documentary Theory and Practice
KPB206	International Cinema

Games and Interactive Entertainment

Games and Interactive Entertainment- Semester 1

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

INB180	Computer Games Studies
INB280	Fundamentals of Game Design
INB281	Advanced Game Design

Games and Interactive Entertainment- Semester 2

INB181	Introduction to Games Production
INB272	Interaction Design

Geography

Geography- Semester 1

CLB109	World Regions
CLB110	Environment and Society
CLB111	Environmental Hazards
CLB112	South East Asia in Focus
CLB113	Australian Geographical Studies
CLB114	Geography in the Field

Geography- Semester 2

CLB109	World Regions
CLB110	Environment and Society
CLB111	Environmental Hazards
CLB114	Geography in the Field

History

History- Semester 1

CLB101	Australian Society and Culture
CLB102	Australian Historical Studies
CLB103	Interpreting the Past
CLB104	Colonialism and Independence in Asia-Pacific
CLB105	Australia and the South Pacific
CLB106	Modern China
CLB107	The Classical World
CLB108	Nations and Nationalism in Modern Europe

History- Semester 2

CLB101	Australian Society and Culture
CLB102	Australian Historical Studies
CLB104	Colonialism and Independence in Asia-Pacific
CLB105	Australia and the South Pacific
CLB107	The Classical World

Human Movement Studies

Human Movement Studies- Semester 1

HMB171	Fitness Health and Wellness
HMB305	Personal Health
HMB314	Alternative Physical Education
HMB338	Wellness Processes and Strategies

Human Movement Studies- Semester 2

HMB172	Nutrition and Physical Activity
HMB278	Foundations of Movement for Educators
HMB315	Games Based Learning in Physical Activity and Sport
HMB333	Child and Adolescent Health

Indigenous Studies

Indigenous Studies- Semester 1

EDB038	Indigenous Australian Culture Studies
EDB039	Indigenous Politics and Political Culture
EDB040	Indigenous Knowledge: Research Ethics and Protocols

Indigenous Studies- Semester 2

EDB039	Indigenous Politics and Political Culture
EDB040	Indigenous Knowledge: Research Ethics and Protocols

Information Technology

Information Technology- Semester 1

INB101	Impact of IT
INB102	Emerging Technology
INB104	Building IT Systems
INB271	The Web
INB300	Professional Practice in IT
INB301	The Business of IT
INB335	Information Resources
INB345	Mobile Devices
INB347	Web 2.0 Applications
INB385	Multimedia Systems
INB860	Computational Intelligence for Control and Embedded Systems

Information Technology- Semester 2

INB101	Impact of IT
INB102	Emerging Technology
INB104	Building IT Systems
INB250	Foundations of Computer Science
INB271	The Web
INB300	Professional Practice in IT
INB301	The Business of IT
INB335	Information Resources
INB346	Enterprise 2.0
INB386	Advanced Multimedia Systems

Interactive and Visual Design/Animation

Interactive and Visual Design/Animation- Semester 1

KIB101	Visual Communication
KIB103	Introduction to Web Design and Development
KIB104	Digital Media

KIB108	Animation History and Practices
KIB203	Introduction to 3D Computer Graphics
KVB105	Drawing for Design

Interactive and Visual Design/Animation- Semester 2

KIB101	Visual Communication
KIB104	Digital Media
KIB105	Animation and Motion Graphics

Journalism

Journalism- Semester 1

KJB101	Digital Journalism
KJB120	Newsriting
KJB239	Journalism Ethics and Issues

Journalism- Semester 2

KJB101	Digital Journalism
KJB120	Newsriting
KKB175	Creative Industries Legal Issues

Justice Studies

Justice Studies- Semester 1

JSB171	Justice and Society
JSB172	Professional Criminological Research Skills
JSB175	Social Ethics and the Justice System
JSB272	Theories of Crime
JSB273	Crime Research Methods
JSB274	Policing in Context
JSB371	Indigenous Justice
JSB373	Punishment and Penal Policy
JSB415	Advanced Research Management
JSB971	Gender Crime and the Criminal Justice System

Justice Studies- Semester 2

JSB174	Forensic Psychology and the Law
JSB271	Policy Governance and Justice
JSB374	Crime Prevention
JSB376	Information Management and Analysis
JSB377	Intelligence and Security

Law

Law- Semester 1

LWB145	Legal Foundations A
LWB146	Legal Foundations B
LWB142	Law, Society and Justice

Law- Semester 2

LWB145	Legal Foundations A
LWB146	Legal Foundations B

LWB144	Laws and Global Perspectives
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Literary and Cultural Studies

Literary and Cultural Studies- Semester 1

KWB208	Modern Times (Literature and Culture in the 20th Century)
KWB209	Shakespeare, Then and Now

Literary and Cultural Studies- Semester 2

KWB108	Introduction To Literary Studies
KWB109	Writing Australia

Management and International Business

Management and International Business- Semester 1

MGB207	Human Resource Issues and Strategy
MGB223	Entrepreneurship and Innovation
MGB225	Intercultural Communication and Negotiation Skills
BSB115	Management
BSB119	Global Business
AMB210	Importing and Exporting

Management and International Business- Semester 2

MGB207	Human Resource Issues and Strategy
MGB223	Entrepreneurship and Innovation
MGB225	Intercultural Communication and Negotiation Skills
BSB115	Management
BSB119	Global Business
AMB210	Importing and Exporting

Media and Communication

Media and Communication- Semester 1

KCB101	Introduction to Media and Communication: Texts
KCB102	Media Myth Busting 1
KCB103	Strategic Speech Communication
KCB110	Introduction to Mass Communication
KCB203	Consumption Matters: Consumer Cultures and Identity
KCB205	Professional Communication

Media and Communication- Semester 2

KCB101	Introduction to Media and Communication: Texts
KCB103	Strategic Speech Communication
KCB104	Media and Communications: Industries
KCB105	Media Myth Busting 2
KCB202	New Media 2: Applications and Implications
KCB203	Consumption Matters: Consumer Cultures and Identity

KCB205 Professional Communication

Music and Sound Studies

Music and Sound Studies- Semester 1

KMB003 Sex Drugs Rock 'N' Roll
 KMB004 World Music
 KMB119 Music and Sound Production 1
 KMB122 Music and Sound Concepts 1
 KMB200 Music Scenes and Subcultures

Music and Sound Studies- Semester 2

KMB107 Sound, Image, Text

Network Systems

Network Systems- Semester 1

INB251 Networks
 INB255 Security
 INB312 Enterprise Systems Applications
 INB350 Internet Protocols and Services
 INB353 Wireless and Mobile Networks
 INB355 Cryptology and Protocols

Network Systems- Semester 2

INB251 Networks
 INB351 Unix Network Administration
 INB352 Network Planning
 INB365 Systems Programming

Psychology and Counselling

Psychology and Counselling- Semester 1

PYB000 Psychology in Professional Contexts
 PYB007 Interpersonal Processes and Skills
 PYB012 Psychology
 PYB100 Foundation Psychology
 PYB054 Psychology and Gender

Psychology and Counselling- Semester 2

PYB007 Interpersonal Processes and Skills
 PYB067 Human Sexuality
 PYB012 Psychology
 PYB100 Foundation Psychology
 PYB110 Psychological Research Methods
 PYB102 Introduction to Psychology 1B
 PYB203 Developmental Psychology

Public Health

Public Health- Semester 1

PUB104 Australian Health Care Systems
 PUB105 Family Influences on Health and Development

PUB113 Design and Technology
 PUB251 Contemporary Public Health
 PUB332 Sustainable Environments For Health
 PUB474 Food Science
 PUB514 Contract/Project Management

Public Health- Semester 2

PUB201 Food and Nutrition
 PUB209 Health, Culture and Society
 PUB251 Contemporary Public Health
 PUB321 Textile Studies
 PUB355 Hospitality Studies
 PUB336 Women's Health
 PUB480 Health Administration Finance
 PUB609 Health Resource Allocation
 PUB611 Risk Management

Science and Mathematics

Science and Mathematics- Semester 1

SCB112 Cellular Basis of Life
 SCB110 Science Concepts and Global Systems
 SCB111 Chemistry 1
 SCB121 Chemistry 2
 MAB101 Statistical Data Analysis 1
 MAB105 Preparatory Mathematics
 MAB210 Statistical Modelling 1
 MAB120 Algebra and Calculus
 MAB121 Calculus and Differential Equations
 MAB122 Algebra and Analytic Geometry
 MAB125 Foundations of Engineering Mathematics
 MAB126 Mathematics for Engineering 1
 MAB127 Mathematics for Engineering 2

Science and Mathematics- Semester 2

SCB112 Cellular Basis of Life
 NQB201 Planet Earth
 NQB202 History of Life on Earth
 SCB123 Physical Science Applications
 SCB111 Chemistry 1
 SCB121 Chemistry 2
 MAB101 Statistical Data Analysis 1
 MAB105 Preparatory Mathematics
 MAB210 Statistical Modelling 1
 MAB120 Algebra and Calculus
 MAB121 Calculus and Differential Equations
 MAB122 Algebra and Analytic Geometry
 MAB125 Foundations of Engineering Mathematics
 MAB126 Mathematics for Engineering 1

MAB127 Mathematics for Engineering 2

Social Work and Human Services

Social Work and Human Services- Semester 1

SWB100 Introduction to Human Services and Social Work

SWB102 The Human Condition

SWB105 Introduction to Human Rights and Ethics

SWB106 Applied Skills and Scholarship

SWB212 Community Work

SWB221 Social Work Processes and Methods

SWB223 People, Society and Social Work

SWB312 International Social Work

Social Work and Human Services- Semester 2

SWB103 Contemporary Social and Community Issues

SWB105 Introduction to Human Rights and Ethics

SWB106 Applied Skills and Scholarship

SWB200 Working in Human Service Organisations

SWB204 Child and Family Services: Introduction

SWB206 Disability Services: Introduction

SWB207 Services to Young People: Introduction

SWB211 Casework and Case Management

SWB214 Team Practice and Group Processes

SWB216 The Human Dimensions of Space

SWB218 Social Change, Politics, Policy and Activism

SWB219 Ethical and Legal Dimensions of Human Services and Social Work

SWB300 Current Developments in Human Services

SWB302 Social Policy Processes

Software Architecture

Software Architecture- Semester 1

INB270 Programming

INB312 Enterprise Systems Applications

INB321 Business Process Management

INB322 Information Systems Consulting

INB340 Database Design

INB370 Software Development

INB371 Data Structures and Algorithms

INB373 Web Application Development

INB381 Modelling and Animation Techniques

Software Architecture- Semester 2

INB210 Databases

INB270 Programming

INB272 Interaction Design

INB311 Enterprise Systems

INB313 Electronic Commerce Site Development

INB320 Business Process Modelling

INB341 Software Development With Oracle

INB372 Agile Software Development

INB374 Enterprise Software Architecture

INB382 Real Time Rendering Techniques

Urban Development

Urban Development- Semester 1

UDB101 Stewardship of Land

UDB110 Residential Construction and Engineering

UDB111 Engineering Construction Materials

UDB140 Property Valuation 1

UDB161 Introduction to Planning and Design

UDB162 History of Built Environment

UDB181 Geospatial Positioning and GPS

UDB210 Commercial Construction and Engineering

UDB211 Introductory Structural Engineering

UDB213 Construction Estimating

UDB216 The Environment and the Quantity Surveyor

UDB240 Planning Theory and Processes

UDB241 Property Law 1

UDB242 Property Valuation 2

UDB243 Property Economics

UDB265 Site Planning

UDB266 Planning Processes and Consultations

UDB281 Geographic Information Systems

UDB283 Surveying Computations

UDB285 Cadastral Surveying

UDB310 Highrise Construction and Engineering

UDB311 Structural Engineering Design

UDB312 Contract Administration

UDB313 Programming and Scheduling

UDB340 Agency Practice and Marketing

UDB341 Property Finance

UDB342 Real Estate Accounting and Taxation

UDB368 Urban Design

UDB381 Geospatial Mapping

UDB383 Control Surveying and Analysis

UDB385 Cadastral and Land Management

UDB387 Spatial and Land Information Management

UDB471 Urban Planning Practice

UDB473 Planning Theory and Ethics

UDB483 Global Positioning Principles and Practice

UDB485 Property Development Practice

Urban Development- Semester 2

UDB102 Applied Law

UDB104 Urban Development Economics

UDB112	Professional Studies 1
UDB113	Measurement 1
UDB141	Building Studies
UDB163	Land Use Planning
UDB164	Population and Urban Studies
UDB182	Surveying
UDB202	Business Skills
UDB212	Measurement 2
UDB214	Professional Studies 2
UDB215	Building Services Engineering
UDB244	Property Law 2
UDB245	Urban Land Studies
UDB246	Property Feasibility Studies
UDB267	Development Assessment and Infrastructure
UDB282	Remote Sensing
UDB284	Engineering Surveying
UDB314	Statutory Construction Law
UDB316	Cost Planning and Control
UDB344	Property and Asset Management
UDB370	Environmental Planning and Management
UDB382	Photogrammetric Mapping
UDB384	Geodesy
UDB388	Spatial Analysis Practice
UDB472	Community Planning
UDB474	Regional Planning Practice
UDB475	Regional and Metropolitan Policy
UDB484	Topographic, Hydrographic and Mining Surveying
UDB486	Cadastral Practice

Visual Arts**Visual Arts- Semester 1**

KVB102	Modernism
KVB104	Photomedia and Artistic Practice
KVB105	Drawing for Design
KVB110	2D Media and Processes
KVB200	Exhibition and Display in the Visual Arts
KVB212	Australian Art, Architecture and Design
KVB213	Graphic Investigation

Visual Arts- Semester 2

KVB103	Australian Art
KVB104	Photomedia and Artistic Practice
KVB108	Contemporary Asian Visual Culture
KVB211	Post 1945 Art

Bachelor of Urban Development (UD40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056387B

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative)
per semester

International Fees (indicative): Refer to majors

Domestic Entry: February

International Entry: February

OP Guarantee: Yes

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Dr John Hayes

Bachelor of Urban Development (Construction Management) (UD40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056387B

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$12,000 (indicative) per semester

Domestic Entry: February and July

International Entry: February and July

QTAC code: 412312

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths A, B or C (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Dr John Hayes

Discipline coordinator: Dr Vaughan Coffey (sem 1); Debra Smit (sem 2)

Campus: Gardens Point

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.

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.

Minors

For accreditation purposes you are required to undertake specified minors which will include employment practice. Please refer to your study rules before making your selection.

CONSTRUCTION MANAGEMENT Minor Options

- All students must take the Construction Management Applications Minor, which is an AIB accreditation requirement.
- Your second minor may be taken from anywhere in QUT but must be from outside UD40. The BEE Project Collaboration Minor is highly recommended for students in Construction Management.

Special Course Requirements

All students are required to obtain a minimum of 80 days of approved industrial experience.

Professional Recognition

Recognition is being sought from the Australian Institute of Building and the Australian Institute of Building Surveyors.

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

School of Urban Development - Phone +61 7 3138 2678, Fax +61 7 3138 1515, email: bee.enquiries@qut.com

Full-time Course Structure - Commencing February 2010 onwards

Year 1 - Semester 1

UDB100	Urban Development and Sustainability
UDB101	Stewardship of Land
UDB110	Residential Construction and Engineering
UDB111	Engineering Construction Materials

Year 1- Semester 2

UDB200	Project Planning in Urban Development
UDB104	Urban Development Economics
UDB112	Professional Studies 1
UDB113	Measurement 1

Year 2 - Semester 1

UDB210	Commercial Construction and Engineering
UDB211	Introductory Structural Engineering
UDB212	Measurement 2
UDB213	Construction Estimating

Year 2 - Semester 2

UDB102	Applied Law
UDB214	Professional Studies 2
UDB215	Building Services Engineering Minor unit

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

Year 3 - Semester 1

UDB310 Highrise Construction and Engineering
 UDB311 Structural Engineering Design
 UDB312 Contract Administration
 Minor unit

Year 3 - Semester 2

UDB202 Business Skills
 UDB314 Statutory Construction Law
 UDB420 Project Administration
 Minor unit

Year 4 - Semester 1

BEB701 Work Integrated Learning 1
 UDB301 Research Methods
 UDB313 Programming and Scheduling
 Minor unit

Year 4 - Semester 2

BEB801 Project 1
 UDB302 Development Process
 UDB316 Cost Planning and Control
 UDB410 Construction Management

Minor Options

Please refer to the Minor information under Course Summary.

Full-time Course Structure - Commencing Mid-Year 2010 onwards

Year 1 - Semester 2

UDB200 Project Planning in Urban Development
 UDB102 Applied Law
 UDB104 Urban Development Economics
 UDB202 Business Skills

Year 2 - Semester 1

UDB100 Urban Development and Sustainability
 UDB110 Residential Construction and Engineering
 UDB111 Engineering Construction Materials
 UDB211 Introductory Structural Engineering

Year 2- Semester 2

UDB112 Professional Studies 1
 UDB113 Measurement 1
 UDB215 Building Services Engineering
 Minor Unit

Year 3 - Semester 1

UDB210 Commercial Construction and Engineering
 UDB212 Measurement 2

UDB213 Construction Estimating
 UDB310 Highrise Construction and Engineering

Year 3 - Semester 2

UDB214 Professional Studies 2
 UDB314 Statutory Construction Law
 UDB420 Project Administration
 Minor Unit

Year 4 - Semester 1

BEB701 Work Integrated Learning 1
 UDB101 Stewardship of Land
 UDB301 Research Methods
 UDB311 Structural Engineering Design

Year 4 - Semester 2

BEB801 Project 1
 UDB302 Development Process
 UDB316 Cost Planning and Control
 UDB410 Construction Management

Year 5 - Semester 1

UDB312 Contract Administration
 UDB313 Programming and Scheduling
 Minor Unit
 Minor Unit

Minor Options

Please refer to Minors information in Course Summary.

Full-time Course Structure - Commencing February 2008 & 2009

Year 1 - Semester 1

BEB100 Introducing Professional Learning
 UDB101 Stewardship of Land
 UDB110 Residential Construction and Engineering
 UDB111 Engineering Construction Materials

Year 1- Semester 2

BEB200 Introducing Sustainability
 UDB104 Urban Development Economics
 UDB112 Professional Studies 1
 UDB113 Measurement 1

Year 2 - Semester 1

UDB210 Commercial Construction and Engineering
 UDB211 Introductory Structural Engineering
 UDB212 Measurement 2
 UDB213 Construction Estimating

Year 2 - Semester 2

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

UDB102 Applied Law
 UDB214 Professional Studies 2
 UDB215 Building Services Engineering
 Minor unit

Year 3 - Semester 1

UDB310 Highrise Construction and Engineering
 UDB311 Structural Engineering Design
 UDB312 Contract Administration
 Minor unit

Year 3 - Semester 2

UDB202 Business Skills
 UDB314 Statutory Construction Law
 UDB420 Project Administration
 Minor unit
 PLEASE NOTE: Up until the end of 2010, CNB408 and CNB425 were an alternative to UDB420, and will count towards your degree.

Year 4 - Semester 1

BEB701 Work Integrated Learning 1
 UDB301 Research Methods
 UDB313 Programming and Scheduling
 Minor unit

Year 4 - Semester 2

BEB801 Project 1
 UDB302 Development Process
 UDB316 Cost Planning and Control
 UDB410 Construction Management

Minor Options

Please refer to the Minor information under Course Summary.

Full-time Course Structure - Commencing February 2006 & 2007

Year 1 - Semester 1

BEB100 Introducing Professional Learning
 UDB101 Stewardship of Land
 UDB110 Residential Construction and Engineering
 UDB111 Engineering Construction Materials

Year 1- Semester 2

BEB200 Introducing Sustainability
 UDB104 Urban Development Economics
 UDB112 Professional Studies 1
 UDB113 Measurement 1

Year 2 - Semester 1

UDB210 Commercial Construction and Engineering

UDB211 Introductory Structural Engineering
 UDB212 Measurement 2
 UDB213 Construction Estimating

Year 2 - Semester 2

UDB102 Applied Law
 UDB202 Business Skills
 UDB215 Building Services Engineering
 Minor Unit

Year 3 - Semester 1

UDB310 Highrise Construction and Engineering
 UDB311 Structural Engineering Design
 UDB312 Contract Administration
 Minor Unit

Year 3 - Semester 2

UDB214 Professional Studies 2
 UDB314 Statutory Construction Law
 Minor Unit
 Minor Unit

Year 4 - Semester 1

UDB301 Research Methods
 UDB313 Programming and Scheduling
 Minor Unit
 Minor Unit

Year 4 - Semester 2

UDB302 Development Process
 UDB410 Construction Management
 Minor Unit
 Minor Unit

Minor Options

Please refer to the Minor information under Course Summary.

Full-time Course Structure - Commencing Mid-Year 2007 & 2008

Year 1 - Semester 2

BEB200 Introducing Sustainability
 UDB102 Applied Law
 UDB104 Urban Development Economics
 UDB202 Business Skills

Year 2 - Semester 1

BEB100 Introducing Professional Learning
 UDB110 Residential Construction and Engineering
 UDB111 Engineering Construction Materials
 UDB211 Introductory Structural Engineering

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

Year 2- Semester 2

UDB112 Professional Studies 1
 UDB113 Measurement 1
 UDB215 Building Services Engineering
 Minor Unit

Year 3 - Semester 1

UDB210 Commercial Construction and Engineering
 UDB212 Measurement 2
 UDB213 Construction Estimating
 UDB310 Highrise Construction and Engineering

Year 3 - Semester 2

UDB214 Professional Studies 2
 UDB314 Statutory Construction Law
 Minor Unit
 Minor Unit

Year 4 - Semester 1

UDB101 Stewardship of Land
 UDB301 Research Methods
 UDB311 Structural Engineering Design
 Minor Unit

Year 4 - Semester 2

UDB302 Development Process
 UDB410 Construction Management
 Minor Unit
 Minor Unit

Year 5 - Semester 1

UDB312 Contract Administration
 UDB313 Programming and Scheduling
 Minor Unit
 Minor Unit

Minor Options

Please refer to Minors information in Course Summary.

Full-time Course Structure - Commencing Mid-Year 2006

Year 1 - Semester 2

BEB100 Introducing Professional Learning
 BEB200 Introducing Sustainability
 UDB102 Applied Law
 UDB104 Urban Development Economics

Year 2 - Semester 1

UDB101 Stewardship of Land
 UDB110 Residential Construction and Engineering

UDB111 Engineering Construction Materials
 UDB211 Introductory Structural Engineering

Year 2- Semester 2

UDB112 Professional Studies 1
 UDB113 Measurement 1
 UDB215 Building Services Engineering
 Minor Unit

Year 3 - Semester 1

UDB210 Commercial Construction and Engineering
 UDB212 Measurement 2
 UDB213 Construction Estimating
 UDB310 Highrise Construction and Engineering

Year 3 - Semester 2

UDB214 Professional Studies 2
 UDB314 Statutory Construction Law
 Minor Unit
 Minor Unit

Year 4 - Semester 1

UDB301 Research Methods
 UDB311 Structural Engineering Design
 Minor Unit
 Minor Unit

Year 4 - Semester 2

UDB202 Business Skills
 UDB302 Development Process
 UDB410 Construction Management
 Minor Unit

Year 5 - Semester 1

UDB312 Contract Administration
 UDB313 Programming and Scheduling
 Minor Unit
 Minor Unit

Minor Options

Please refer to the Minor information under Course Summary.

Potential Careers:

Construction Manager, Contract Administrator, Estimator, Project Manager, Urban and Regional Planner, Urban Designer.

Bachelor of Urban Development (Property Economics) (UD40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056387B

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$11,125 (indicative) per semester

Domestic Entry: February

International Entry: February

QTAC code: 412322

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: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Dr John Hayes

Discipline coordinator: Dr Connie Susilawati

Campus: Gardens Point

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.

Professional Recognition

The 4 year degree has professional recognition from the Australian Property Institute, the Valuers' Registration Board of Queensland, and from the Royal Institution of Chartered Surveyors.

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).

Second Majors and Minors

In your final two years you will have the opportunity to undertake a major (8 units) or 2 minors (4 units each) from other areas of interest. Please refer to your course rules before making your selection.

PROPERTY ECONOMICS Second Major and Minor Options

Second Major:

A second major from anywhere in QUT

Minors:

Two minors from anywhere in QUT. Remember if you take two Minors one Minor must be from outside of your course.

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Further Information

School of Urban Development - Phone +61 7 3138 2678, Fax +61 7 3138 1515, email: bee.enquiries@qut.com

Full-time Course Structure - Commencing February 2010 onwards

Year 1 - Semester 1

UDB100	Urban Development and Sustainability
UDB101	Stewardship of Land
UDB110	Residential Construction and Engineering
UDB140	Property Valuation 1

Year 1- Semester 2

UDB200	Project Planning in Urban Development
UDB102	Applied Law
UDB104	Urban Development Economics
UDB141	Building Studies

Year 2 - Semester 1

UDB240	Planning Theory and Processes
UDB241	Property Law 1
UDB242	Property Valuation 2
UDB243	Property Economics

Year 2 - Semester 2

UDB244	Property Law 2
UDB245	Urban Land Studies
UDB246	Property Feasibility Studies
UDB247	Property Valuation 3

Year 3 - Semester 1

UDB301	Research Methods
UDB341	Property Finance
	Second Major/Minor unit
	Second Major/Minor unit

Year 3 - Semester 2

UDB302	Development Process
UDB344	Property and Asset Management
	Second Major/Minor unit
	Second Major/Minor unit

Year 4 - Semester 1

UDB340	Agency Practice and Marketing
UDB342	Real Estate Accounting and Taxation
	Second Major/Minor unit
	Second Major/Minor unit

Year 4 - Semester 2

BEB701	Work Integrated Learning 1
UDB202	Business Skills
	Second Major/Minor unit
	Second Major/Minor unit

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Full-time Course Structure - Commencing February 2006 - 2009

Year 1 - Semester 1

BEB100	Introducing Professional Learning
UDB101	Stewardship of Land
UDB110	Residential Construction and Engineering
UDB140	Property Valuation 1

Year 1- Semester 2

BEB200	Introducing Sustainability
UDB102	Applied Law
UDB104	Urban Development Economics
UDB141	Building Studies

Year 2 - Semester 1

UDB240	Planning Theory and Processes
UDB241	Property Law 1
UDB242	Property Valuation 2
UDB243	Property Economics

Year 2 - Semester 2

UDB244	Property Law 2
UDB245	Urban Land Studies
UDB246	Property Feasibility Studies
UDB247	Property Valuation 3

Year 3 - Semester 1

UDB301	Research Methods
UDB341	Property Finance
	Second Major/Minor unit
	Second Major/Minor unit

Year 3 - Semester 2

UDB302	Development Process
UDB344	Property and Asset Management

Second Major/Minor unit

Second Major/Minor unit

Year 4 - Semester 1

UDB340	Agency Practice and Marketing
UDB342	Real Estate Accounting and Taxation
	Second Major/Minor unit
	Second Major/Minor unit

Year 4 - Semester 2

BEB701	Work Integrated Learning 1
UDB202	Business Skills
	Second Major/Minor unit
	Second Major/Minor unit

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Potential Careers:

Project Developer, Project Manager, Property Development, Property Economist, Property Management, Real Estate.

Bachelor of Urban Development (Quantity Surveying) (UD40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056387B

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$11,375 (indicative) per semester

Domestic Entry: February

International Entry: February

QTAC code: 412312: students apply to study Bachelor of Urban Development (Construction Management)

Past rank cut-off: 81

Past OP cut-off: 10

OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths A, B or C (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Dr John Hayes

Discipline coordinator: Dr Eric Too

Campus: Gardens Point

Overview

The course prepares students to work as quantity surveyors or building economists. The course covers building management, cost planing and control, building development techniques, building research, computer software application, measurement of construction, and legal issues. **Applicants will be initially enrolled in the Bachelor of Urban Development (Construction Management) but will be directed to take suitable units to graduate with a Quantity Surveying primary major.**

Special Course Requirements

You are required to gain a minimum of 80 days of approved employment in the final year of the course.

Professional Recognition

This course is fully accredited by the Australian Institute of Quantity Surveyors, The Royal Institution of Chartered Surveyors (Honours version only), and the Board of Quantity Surveyors Malaysia (with Property Economics second major).

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).

Second Majors and Minors

You will have the opportunity to undertake a second major (8 units) or 2 minors (4 units each) to enhance and broaden your knowledge in a related field or area of interest.

Please refer to your course rules before making your selection.

QUANTITY SURVEYING Second Major and Minor Options

Second Major:

Choose one second major from the following options:

Property Economics Development
Property Economics Investment
Property Economics Valuation
Urban and Regional Planning
Architectural Studies

OR

Minors:

Choose two minors from the following options. Remember, if you take two Minors, one Minor must be from outside your course:

Property Economics Development
Property Economics Investment
Property Economics Valuation
Urban and Regional Planning
Architectural Studies
BEE Work Integrated Learning Minor
BEE Sustainability Minor
BEE International Minor
BEE Indigenous Studies Minor
BEE Research Minor
BEE Project Collaboration Minor
BEE Collaborative Digital Design Minor
A minor from anywhere in QUT

Further Information

School of Urban Development - Phone +61 7 3138 2678, Fax +61 7 3138 1515, email: bee.enquiries@qut.com

Full-time Course Structure - Commencing February 2010 onwards

Year 1 - Semester 1

UDB100	Urban Development and Sustainability
UDB101	Stewardship of Land
UDB110	Residential Construction and Engineering
UDB111	Engineering Construction Materials

Year 1- Semester 2

UDB200	Project Planning in Urban Development
UDB104	Urban Development Economics
UDB112	Professional Studies 1
UDB113	Measurement 1

Year 2 - Semester 1

UDB210	Commercial Construction and Engineering
UDB212	Measurement 2
UDB213	Construction Estimating

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

UDB216 The Environment and the Quantity Surveyor

Year 2 - Semester 2

UDB102 Applied Law

UDB202 Business Skills

UDB215 Building Services Engineering
Second Major/Minor unit

Year 3 - Semester 1

UDB310 Highrise Construction and Engineering

UDB312 Contract Administration

UDB315 Measurement 3
Second Major/Minor unit

Year 3 - Semester 2

UDB314 Statutory Construction Law

UDB316 Cost Planning and Control
Second Major/Minor unit
Second Major/Minor unit

Year 4 - Semester 1

BEB701 Work Integrated Learning 1

UDB301 Research Methods
Second Major/Minor unit
Second Major/Minor unit

Year 4 - Semester 2

BEB801 Project 1

UDB302 Development Process
Second Major/Minor unit
Second Major/Minor unit

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Full-time Course Structure - Commencing February 2006 - 2009

Year 1 - Semester 1

BEB100 Introducing Professional Learning

UDB101 Stewardship of Land

UDB110 Residential Construction and Engineering

UDB111 Engineering Construction Materials

Year 1- Semester 2

BEB200 Introducing Sustainability

UDB104 Urban Development Economics

UDB112 Professional Studies 1

UDB113 Measurement 1

Year 2 - Semester 1

UDB210 Commercial Construction and Engineering

UDB212 Measurement 2

UDB213 Construction Estimating

UDB216 The Environment and the Quantity Surveyor

Year 2 - Semester 2

UDB102 Applied Law

UDB202 Business Skills

UDB215 Building Services Engineering
Second Major/Minor unit

Year 3 - Semester 1

UDB310 Highrise Construction and Engineering

UDB312 Contract Administration

UDB315 Measurement 3
Second Major/Minor unit

Year 3 - Semester 2

UDB314 Statutory Construction Law

UDB316 Cost Planning and Control
Second Major/Minor unit
Second Major/Minor unit

Year 4 - Semester 1

BEB701 Work Integrated Learning 1

UDB301 Research Methods
Second Major/Minor unit
Second Major/Minor unit

Year 4 - Semester 2

BEB801 Project 1

UDB302 Development Process
Second Major/Minor unit
Second Major/Minor unit

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Full-time Course Structure - Commencing Mid-Year 2007 & 2008

Year 1 - Semester 2

BEB200 Introducing Sustainability

UDB102 Applied Law

UDB104 Urban Development Economics

UDB202 Business Skills

Year 2 - Semester 1

BEB100 Introducing Professional Learning

UDB101 Stewardship of Land

UDB110 Residential Construction and Engineering

UDB111 Engineering Construction Materials

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

Year 2 - Semester 2

UDB112	Professional Studies 1
UDB113	Measurement 1
UDB215	Building Services Engineering Second Major/Minor unit

Year 3 - Semester 1

UDB210	Commercial Construction and Engineering
UDB212	Measurement 2
UDB216	The Environment and the Quantity Surveyor
UDB310	Highrise Construction and Engineering

Year 3 - Semester 2

UDB314	Statutory Construction Law
UDB316	Cost Planning and Control Second Major/Minor unit Second Major/Minor unit

Year 4 - Semester 1

BEB701	Work Integrated Learning 1
UDB213	Construction Estimating
UDB301	Research Methods
UDB315	Measurement 3

Year 4 - Semester 2

BEB801	Project 1
UDB302	Development Process Second Major/Minor unit Second Major/Minor unit

Year 5 - Semester 1

UDB312	Contract Administration Second Major/Minor unit Second Major/Minor unit Second Major/Minor unit
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Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Full-time Course Structure - Commencing Mid-Year 2006

Year 1 - Semester 2

BEB100	Introducing Professional Learning
BEB200	Introducing Sustainability
UDB102	Applied Law
UDB104	Urban Development Economics

Year 2 - Semester 1

UDB101	Stewardship of Land
UDB110	Residential Construction and Engineering

UDB111	Engineering Construction Materials
UDB210	Commercial Construction and Engineering

Year 2 - Semester 2

UDB112	Professional Studies 1
UDB113	Measurement 1
UDB215	Building Services Engineering Second Major/Minor unit

Year 3 - Semester 1

UDB212	Measurement 2
UDB213	Construction Estimating
UDB216	The Environment and the Quantity Surveyor
UDB310	Highrise Construction and Engineering

Year 3 - Semester 2

UDB202	Business Skills
UDB314	Statutory Construction Law
UDB316	Cost Planning and Control Second Major/Minor unit

Year 4 - Semester 1

BEB701	Work Integrated Learning 1
UDB301	Research Methods
UDB315	Measurement 3 Second Major/Minor unit

Year 4 - Semester 2

BEB801	Project 1
UDB302	Development Process Second Major/Minor unit Second Major/Minor unit

Year 5 - Semester 1

UDB312	Contract Administration Second Major/Minor unit Second Major/Minor unit Second Major/Minor unit
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Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Potential Careers:

Estimator, Manager, Quantity Surveyor.

Bachelor of Urban Development (Spatial Science) (UD40)

Year offered: 2011

Admissions: Yes

CRICOS code: 056387B

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$12,000 (indicative) per semester

Domestic Entry: February

International Entry: February

QTAC code: 412532

Past rank cut-off: 79

Past OP cut-off: 11

OP Guarantee: Yes

Assumed knowledge: English (4, SA) and Maths B (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

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

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 geospatial positioning in their first year. In the following years, the areas covered are boundary and control surveying, topographic mapping, photogrammetry, mine and hydrographic surveying, land development design and geographic information systems.

Professional Recognition

The course is recognised by Queensland Surveyors Board and the Surveying and Spatial Science Institute of Australia (SSSI).

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 spatial science/surveying 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 Integrated Learning unit, a project unit and two specialised spatial science units.

Further Information

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

Full-time Course Structure - Commencing February 2010 onwards

Year 1 - Semester 1

UDB100	Urban Development and Sustainability
MAB120	Algebra and Calculus
UDB101	Stewardship of Land
UDB181	Geospatial Positioning and GPS

Year 1 - Semester 2

UDB200	Project Planning in Urban Development
MAB101	Statistical Data Analysis 1
UDB104	Urban Development Economics
UDB182	Surveying

Year 2 - Semester 1

PCB172	Physics for Surveyors
UDB281	Geographic Information Systems
UDB283	Surveying Computations
UDB285	Cadastral Surveying

Year 2 - Semester 2

MAB730	Surveying Mathematics 2
UDB102	Applied Law
UDB282	Remote Sensing
UDB284	Engineering Surveying

Year 3 - Semester 1

UDB381	Geospatial Mapping
UDB383	Control Surveying and Analysis
UDB385	Cadastral and Land Management
UDB387	Spatial and Land Information Management

Year 3 - Semester 2

UDB202	Business Skills
UDB302	Development Process
UDB382	Photogrammetric Mapping
UDB384	Geodesy

Year 4 - Semester 1

BEB701	Work Integrated Learning 1
UDB301	Research Methods
UDB483	Global Positioning Principles and Practice
UDB485	Property Development Practice

Year 4 - Semester 2

BEB801	Project 1
UDB388	Spatial Analysis Practice
UDB484	Topographic, Hydrographic and Mining

Surveying
 UDB486 Cadastral Practice

Surveying
 UDB486 Cadastral Practice

Full-time Course Structure - Commencing February 2006 - 2009

Potential Careers:

Mapping Scientist/Photogrammetrist, Spatial Information Officer, Surveyor.

Year 1 - Semester 1

BEB100 Introducing Professional Learning
 MAB100 Mathematical Sciences 1A
 UDB101 Stewardship of Land
 UDB181 Geospatial Positioning and GPS

Year 1- Semester 2

BEB200 Introducing Sustainability
 MAB101 Statistical Data Analysis 1
 UDB104 Urban Development Economics
 UDB182 Surveying

Year 2 - Semester 1

PCB172 Physics for Surveyors
 UDB281 Geographic Information Systems
 UDB283 Surveying Computations
 UDB285 Cadastral Surveying

Year 2 - Semester 2

MAB730 Surveying Mathematics 2
 UDB102 Applied Law
 UDB282 Remote Sensing
 UDB284 Engineering Surveying

Year 3 - Semester 1

UDB381 Geospatial Mapping
 UDB383 Control Surveying and Analysis
 UDB385 Cadastral and Land Management
 UDB387 Spatial and Land Information Management

Year 3 - Semester 2

UDB302 Development Process
 UDB382 Photogrammetric Mapping
 UDB384 Geodesy
 UDB388 Spatial Analysis Practice

Year 4 - Semester 1

BEB701 Work Integrated Learning 1
 UDB301 Research Methods
 UDB483 Global Positioning Principles and Practice
 UDB485 Property Development Practice

Year 4 - Semester 2

BEB801 Project 1
 UDB202 Business Skills
 UDB484 Topographic, Hydrographic and Mining

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

Year offered: 2011

Admissions: Yes

CRICOS code: 056387B

Course duration (full-time): 4 years

Domestic fees (indicative): 2011: CSP \$3,878 (indicative) per semester

International Fees (indicative): 2011: \$12,000 (indicative) per semester

Domestic Entry: February

International Entry: February

QTAC code: 412352

Past rank cut-off: 79

Past OP cut-off: 11

OP Guarantee: Yes

Assumed knowledge: English (4, SA)

Preparatory studies: For information on acquiring assumed knowledge visit

<http://www.qut.edu.au/assumed-knowledge>

Total credit points: 384

Standard credit points per full-time semester: 48

Course coordinator: Dr John Hayes

Discipline coordinator: Dr Severine Mayere (sem 1); Dr Paul Donehue (sem 2)

Campus: Gardens Point

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.

Second Major and Minors

You will have the opportunity to undertake a second major (8 units) or 2 minors (4 units each) to broaden your appreciation of fields related to urban and regional planning; for example: landscape architecture, urban design, surveying, property economics, law or business management.

Please refer your course rules before making your selection.

URBAN AND REGIONAL PLANNING Second Major and Minor Options

Second Major:

Choose one second major from the following options:

Architectural Studies
Landscape Architecture
Spatial Science
Property Economics Development

Property Economics Investment
Property Economics Valuation
Construction Management
Construction Management Residential Construction

OR

Minors:

Choose two minors from the following options. Remember, if you take two Minors, one Minor must be from outside your course:

Urban and Regional Planning Applications Minor (accreditation requirement)

Landscape Architecture
Spatial Science
Architectural Studies
Property Economics Development
Property Economics Investment
Property Economics Valuation
BEE Sustainability Minor
BEE International Minor
BEE Indigenous Studies Minor
BEE Research Minor
BEE Project Collaboration Minor
BEE Collaborative Digital Design Minor
A minor from anywhere in QUT

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).

Deferment

Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

Further Information

School of Urban Development - Phone +61 7 3138 2678, Fax +61 7 3138 1515, email: bee.enquiries@qut.com

Full-time Course Structure - Commencing February 2010 onwards

Year 1 - Semester 1

UDB100	Urban Development and Sustainability
UDB101	Stewardship of Land
UDB161	Introduction to Planning and Design
UDB162	History of Built Environment

Year 1- Semester 2

UDB200	Project Planning in Urban Development
UDB104	Urban Development Economics
UDB163	Land Use Planning
UDB164	Population and Urban Studies

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

Year 2 - Semester 1

UDB265	Site Planning
UDB266	Planning Processes and Consultations
	Second Major/Minor unit
	Second Major/Minor unit

Year 2 - Semester 2

UDB102	Applied Law
UDB267	Development Assessment and Infrastructure
	Second Major/Minor unit
	Second Major/Minor unit

Year 3 - Semester 1

UDB368	Urban Design
UDB369	Negotiation and Conflict Resolution
	Second Major/Minor unit
	Second Major/Minor unit

Year 3 - Semester 2

UDB302	Development Process
UDB370	Environmental Planning and Management
	Second Major/Minor unit
	Second Major/Minor unit

Year 4 - Semester 1

UDB301	Research Methods
UDB471	Urban Planning Practice
UDB473	Planning Theory and Ethics
BEB801	Project 1
	OR
BEB802	Project 2

Year 4 - Semester 2

UDB202	Business Skills
UDB472	Community Planning
UDB474	Regional Planning Practice
UDB475	Regional and Metropolitan Policy

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Full-time Course Structure - Commencing February 2006 - 2009

Year 1 - Semester 1

BEB100	Introducing Professional Learning
UDB101	Stewardship of Land
UDB161	Introduction to Planning and Design
UDB162	History of Built Environment

Year 1- Semester 2

BEB200	Introducing Sustainability
UDB104	Urban Development Economics
UDB163	Land Use Planning
UDB164	Population and Urban Studies

Year 2 - Semester 1

UDB265	Site Planning
UDB266	Planning Processes and Consultations
	Second Major/Minor unit
	Second Major/Minor unit

Year 2 - Semester 2

UDB102	Applied Law
UDB267	Development Assessment and Infrastructure
	Second Major/Minor unit
	Second Major/Minor unit

Year 3 - Semester 1

UDB368	Urban Design
UDB369	Negotiation and Conflict Resolution
	Second Major/Minor unit
	Second Major/Minor unit

Year 3 - Semester 2

UDB302	Development Process
UDB370	Environmental Planning and Management
	Second Major/Minor unit
	Second Major/Minor unit

Year 4 - Semester 1

UDB301	Research Methods
UDB471	Urban Planning Practice
UDB473	Planning Theory and Ethics
BEB801	Project 1
	OR
BEB802	Project 2

Year 4 - Semester 2

UDB202	Business Skills
UDB472	Community Planning
UDB474	Regional Planning Practice
UDB475	Regional and Metropolitan Policy

Second Major and Minor Options

Please refer to Second Major and Minor information under Course Summary.

Potential Careers:

Urban and Regional Planner, Urban Designer.

Master of Urban Development (Urban and Regional Planning) (UD50)

Year offered: 2011

Admissions: Yes

CRICOS code: 060809F

Course duration (full-time): 1 year

Course duration (part-time): 2 years

Domestic fees (indicative): 2011: Full fee tuition \$8,750 (indicative) per semester

International Fees (indicative): 2011: \$11,125 (indicative) per semester

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 Mark Ho (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 two core units and two specialisation 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

Students completing the Graduate Certificate in Built Environment and Engineering, with appropriate unit selection, and the Master of Urban Development (Urban and Regional Planning), will be eligible for graduate membership of 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).

Advanced Standing

Students completing two Masters courses in the Faculty of Built Environment and Engineering will be eligible to apply for a maximum of 24 credit points advanced standing in the second course on the basis of common units already completed. Such students will be required to complete a minimum of 72cp to be determined in consultation with the nominated Course Leader, to achieve the second Masters.

Further Information

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

Full-time Course structure - February Entry

Year 1, Semester 1

BEN610	Project Management Principles
UDN510	Urban Planning Practice
UDN516	Master Concepts and Ethics Seminar
AMN435	Communication, Negotiation and Leadership

Year 1, Semester 2

BEN710	Sustainable Practice in Built Environment and Engineering
BEN910	Integrated Project
UDN512	Community Planning
UDN514	Regional Planning Practice

Full-time Course structure - Mid Year Entry

Year 1, Semester 2

BEN710	Sustainable Practice in Built Environment and Engineering
UDN512	Community Planning
UDN514	Regional Planning Practice
AMN435	Communication, Negotiation and Leadership

Year 2, Semester 1

BEN610	Project Management Principles
BEN910	Integrated Project
UDN510	Urban Planning Practice
UDN516	Master Concepts and Ethics Seminar

Part-time Course structure - February Entry

Year 1, Semester 1

BEN610 Project Management Principles
UDN510 Urban Planning Practice

Year 1, Semester 2

UDN512 Community Planning
UDN514 Regional Planning Practice

Year 2, Semester 1

UDN516 Master Concepts and Ethics Seminar
AMN435 Communication, Negotiation and Leadership

Year 2, Semester 2

BEN710 Sustainable Practice in Built Environment and
Engineering
BEN910 Integrated Project

Part-time Course structure - Mid Year Entry

Year 1, Semester 2

UDN512 Community Planning
UDN514 Regional Planning Practice

Year 2, Semester 1

BEN610 Project Management Principles
UDN510 Urban Planning Practice

Year 2, Semester 2

BEN710 Sustainable Practice in Built Environment and
Engineering
AMN435 Communication, Negotiation and Leadership

Year 3, Semester 1

BEN910 Integrated Project
UDN516 Master Concepts and Ethics Seminar

Potential Careers:

Urban and Regional Planner.