

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

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FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

Course Structures

□ Course Requirements and Notes Relating to Postgraduate Courses

Course Progression

It is important that students follow as normal a progression through their courses as possible. Units should be taken in an orderly sequence as set out in published course structures. Units failed should be picked up in the next semester they are offered. In order to maintain orderly progression through a course, a prerequisite requirement **may** be waived if a student has attempted but not passed the prerequisite and the approval of the course coordinator has been obtained. This is considered to be a major concession. Students who have failed units or have doubts about having the necessary background to proceed should seek the advice of the course coordinator.

Supplementary Assessment

It is not normally faculty policy to grant supplementary examinations. However, at the discretion of the Dean of the Faculty, supplementary or further assessment may be permitted in cases where a student is near to the completion of their course.

In such cases it is normal policy to award an 'A' (Result Unfinalised) and to give the student further assessment. Following satisfactory completion of this further assessment, the highest grade which may normally be awarded is a grade of 3 (Pass Conceded).

School of Civil Engineering Safety Shoes Policy

Students enrolled in the units CEP998 Project B and CEP999 Project A will be required to wear safety shoes for some laboratory practicals and/or field trips. Students not wearing appropriate safety shoes on these occasions will be barred from (i) participating in activities in these units, and (ii) submitting any assessment associated with these activities. Hard hats and safety glasses/goggles will be supplied by the School of Civil Engineering if required.

■ Master of Applied Science (Research) (BN71)

Location: Gardens Point campus

Introduction

The objectives of the program are:

- to provide for postgraduate educational opportunities in the specialised fields of applied science relating to the built environment, by means of a program which involves either an advanced contribution to knowledge or an advanced application of existing knowledge
- to provide further education in research methods

- ☐ to enable graduates employed in industry to undertake further education by thesis and research
- ☐ to enable industrial organisations and other external agencies to sponsor a candidate research program under the control and supervision of the faculty
- ☐ to further relationships between the University and industry or other external agencies engaged in applied science, to their mutual advantage.

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 procedure relating to research degrees is exercised through a Research Management Committee which is a subcommittee of Academic Committee.

1.3 Research Management Committee has delegated responsibility for day to day administration of research master degree courses to faculty academic boards. Academic boards shall report biannually to Research Management Committee on progress made by research master degree candidates.

1.4 This program is administered by the Academic Board of the Faculty of Built Environment & Engineering through its Faculty Research Committee. The program is offered by Architecture, Construction Management and Planning, Interior Design, Industrial Design, Landscape Architecture, and Surveying.

1.5 In order to qualify for the award of the degree of Master of Applied Science (Research), a candidate must:

- ☐ have completed the approved course of study involving advanced work under the supervision of a Thesis Panel prescribed by the Faculty Research Committee of the Built Environment & 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 between acceptance by the Faculty Research Committee and enrolment by the candidate in the Master of Applied Science before the offer of admission to the program lapses. Candidates are required to complete an enrolment form each semester.

2.4 The minimum academic qualifications for admission to the Master of Applied Science (Research) program, are:

- ☐ possession of an honours degree, or

- ☐ possession of a qualification judged equivalent by the Faculty Research Committee, or
- ☐ a grade point average of 5.0 or better in a graduate diploma in a relevant discipline 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 master degree program in a relevant discipline with demonstrated potential for further study and/or evidence of professional standing.

An applicant for the Master of Applied Science (Research) 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:

- (i) three years professional experience in the general field in which the proposed work lies, or
- (ii) satisfactory completion of an appropriate master's qualifying program including formal coursework and/or reading program in related fields stipulated by the Faculty Research Committee, or
- (iii) 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 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 shall be registered initially as:

- ☐ a graduate student (provisional) if they are to undertake an appropriate qualifying program, or
- ☐ a graduate student if they are considered by the Faculty Research Committee to meet the requirements for entry.

A graduate student (provisional) becomes a graduate student when registration is confirmed. Applicants not holding an appropriate honours degree or its equivalent shall normally be given provisional registration.

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 the Faculty Research Committee, or
- ☐ have been accepted for provisional registration in the faculty and has achieved, by subsequent work and study, a standard recognised by the Faculty Research Committee
- ☐ have satisfied the Faculty Research Committee that they are a suitable person to undertake the program
- ☐ have satisfied the 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, and
- ☐ the proposed program has relevance to the needs of industry.

2.8 An application for registration should set out systematically and fully the candidate's intended course of study including the following:

- ☐ a description of the area of study within which the candidate's 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 of research and investigation, 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 the Head of School and/or Director of Centre
- ☐ any other relevant material.

2.9 The program is offered on a full-time and/or a part-time basis. Part-time students normally will be employed in some professional capacity during the day and carry out their research 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 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 internal or external. An external candidate is one whose program of research and investigation is based at a place of employment or sponsoring institution. Normally, support of the sponsoring institution for the candidate's application is required for registration.

2.12 The Faculty Research Committee may cancel a candidate's registration if, after consulting a candidate's supervisors 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) shall undertake a program of research and investigation on a topic approved by the Faculty Research Committee.

3.2 All research activity should be sponsored 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 the research be primarily directed towards 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 qualifying program of formal coursework in subjects relevant to the field of study up to a total class contact of 48 credit points.

3.5 The course of study will normally 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 and investigation.

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 Coursework will not occupy more than half of the total period of registration.

4. Period of Time for Completion of Course Study

4.1 The duration of study for candidates with four years of relevant study at tertiary level will normally be up to two years of full-time study 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 graduate full-time 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 graduate part-time student shall present the thesis for examination after a period of at least two years but not more than four years has elapsed 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 first day of the first semester in which the candidate was enrolled as a graduate student. Periods of exclusion or absence with or 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 exclusion from the program by registered mail. They have right of appeal to the Academic Appeals Committee.

5. Supervision

5.1 The Faculty Research Committee shall appoint two or more supervisors with appropriate experience in respect of each candidate. One shall be nominated as the Principal Supervisor and others as associate supervisors. The supervisors shall form a Thesis Panel.

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 Thesis Panel shall supervise all aspects of the candidate's work program, shall receive reports from the candidate on progress and shall recommend both on successful and unsuccessful completion of components of the coursework incorporated in the candidate's program, on progress on the thesis research, and on continued enrolment.

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

6. Place and Conditions of Work

6.1 The research program must normally be carried out under supervision in a suitable environment in Australia.

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 School and/or Director of Centre in which the study is proposed that, in his or her opinion, the applicant is a suitable person to undertake a research program leading to the master degree, that the program is supported, that the school or centre 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 QUT school or director of centre in which the study is proposed that, in their opinion, the applicant is a suitable person to undertake a research program leading to the master degree, that the program is supported, and that

after examination of the proposed external facilities and supervision the school/centre 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*.

7.2 Not later than six months after confirmed registration, a candidate shall submit the title of his or her thesis for approval by the Faculty Research Committee, and after approval has been granted, no change shall be made except with the permission of the committee.

7.3 The candidate shall give two months written notice of intention to submit his or her 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 master 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 of reports, plans and/or documents or may be supported by these if they have a bearing on the thesis. Other supporting documents such as published papers may also be submitted with the thesis, and
- ☐ 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 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 Research Management 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.

8. Examination of Thesis

8.1 The Faculty Research Committee shall appoint two/three examiners, of whom at least one shall be from outside 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 on 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:

- (i) recommend that the thesis be accepted without modification, and to the Academic Committee that the candidate be awarded the degree, or
- (ii) recommend to the Academic Committee that the candidate be awarded the degree, after any minor amendments requested by the examiners have been made, or
- (iii) 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
- (iv) 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.

■ Master of Built Environment (BN73)

CITY AND REGIONAL PLANNING MAJOR

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Coordinator: Dr John Minnery

Entry Requirements

Applicants for admission should:

- (i) hold a Graduate Diploma in Urban and Regional Planning from QUT, or
- (ii) hold a professional planning degree or diploma from a recognised university, college of advanced education, or approved equivalent tertiary institution, and
- (iii) have attained a level of achievement in previous studies which attests to the applicant's ability to undertake successfully a masters program in the field of City and Regional Planning.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
PSN001	Applied Research Techniques	6	2
PSN111	Comparative Planning Theory	6	2
PSN112	Concentration Studies	12	2.5
PSN113	Option Projects	12	2
PSN114	Metropolitan Planning Practice & Law	12	3

Year 1, Semester 2

PSN121	Planning Project	24	1
PSN122	Professional Seminars	6	2
PSN123	Planning in Developing Countries	6	2
PSN124	Option Course	12	2

Part-Time Course Structure

Year 1, Semester 1

PSN111	Comparative Planning Theory	6	2
PSN114	Metropolitan Planning Practice & Law	12	3

Year 1, Semester 2

PSN122	Professional Seminars	6	2
PSN123	Planning in Developing Countries	6	2
PSN124	Option Course	12	2

Year 2, Semester 1

PSN001	Applied Research Techniques	6	2
PSN112	Concentration Studies	12	2.5
PSN113	Option Projects	12	2

Year 2, Semester 2

PSN121	Planning Project	24	1
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LANDSCAPE ARCHITECTURE MAJOR

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Coordinator: To be advised

Entry Requirements

Applicants for admission shall:

- (i) hold the Graduate Diploma in Landscape Architecture from QUT with a grade point average of 5.0 or better or an equivalent qualification, and
- (ii) have demonstrated potential through relevant professional activities to participate actively in a masters program.

In addition, as part of the documentation for application, each applicant is required to submit:

- (i) a written statement identifying the specialised area of study to be pursued (as a means of defining potential areas of concentrations and of giving a preliminary indication of the Dissertation topic) and the contribution the applicant intends to make to the course and the profession by undertaking the particular focus of study, and
- (ii) a folio in A4 or A3 format demonstrating the applicant's professional experience and expertise.

Course Requirements

Students must complete a minimum of 48 credit points per semester in the full-time course and a minimum of 24 credit points per semester in the part-time course.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
IFN001	Advanced Information Retrieval Skills	4	1
PSN201	Masters Studio	12	3
PSN202	Advanced Practice 1	4	1
PSN204	Practice Seminar	4	1
PSN206	Research Method, AND	4	1
PSN002	Concentration Studies A	4	1
PSN003	Concentration Studies B	8	2
	Elective Unit/s*	8	2
	OR		
	Elective Units* totalling	20	5
Year 1, Semester 2			
PSN099	Dissertation	24	6
PSN203	Advanced Practice 2	8	2
PSN205	Professional Seminars	8	2
	Elective Unit/s	8	2
Part-Time Course Structure			
Year 1, Semester 1			
IFN001	Advanced Information Retrieval Skills	4	1
PSN201	Masters Studio	12	3
PSN202	Advanced Practice 1, AND	4	1
PSN002	Concentration Studies A	4	1
	OR		
	Elective Unit/s* totalling	4	1
Year 1, Semester 2			
PSN203	Advanced Practice 2	8	2
PSN205	Professional Seminars, AND	8	2
PSN003	Concentration Studies B	8	2
	OR		
	Elective Unit/s totalling	8	2
Year 2, Semester 1			
PSN204	Practice Seminar	4	1
PSN206	Research Method, AND	4	1
PSN002	Concentration Studies A	4	1
PSN003	Concentration Studies B	8	2
	Elective Unit/s*	4	2
	OR		
	Elective Units* totalling	16	4
Year 2, Semester 2			
PSN099	Dissertation	24	6

PROJECT MANAGEMENT MAJOR

Course Duration: 1.5 years full-time, 3 years part-time

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Coordinator for Project Management Major: Mr Andrew Leicester

* Elective units may include any other units in the semester not already taken or a unit from another course, with the prior approval of the course coordinator.

The first two semesters full-time or four semesters part-time are identical to the Graduate Diploma in Project Management (CN64). Persons admitted to the Master of Built Environment who are graduates of the Graduate Diploma in Project Management will complete CNN441 (one semester full-time) or CNN442 (two semesters part-time).

Entry Requirements

Applicants for admission shall hold:

- (i) a bachelor degree and demonstrated potential in professional activity to undertake a masters degree course; or
- (ii) a bachelor degree and a relevant graduate diploma or qualifying program with a grade point average of 5 or better; or
- (iii) qualifications deemed equivalent to (i) or (ii) by the Dean of Faculty on the recommendation of the course coordinator; and
- (iv) shall normally have at least three years of appropriate work experience after graduation.

As the coursework of the Graduate Diploma in Project Management and the Master of Built Environment (Project Management) are identical, students may transfer from the graduate diploma to the masters degree program providing that they have a grade point average of 5.0 or better. Students are normally required to transfer at the completion of one semester (48 credit points) of the graduate diploma.

At the completion of the coursework component of the masters degree program but before the completion of the Dissertation, students have the option of electing to graduate with the Graduate Diploma in Project Management.

The Graduate Diploma in Project Management has majors in Project Management and Property Development. These areas are available as specialisations within the masters degree program.

Note: Whilst the unit CNN441 (or CNN442) Dissertation incorporates the unit IFN001 Advanced Information Retrieval Skills, it is recommended that IFN001 be completed prior to the commencement of the masters degree program or as early as possible in the first semester. (The credit point value of IFN001 is incorporated in the credit point value of CNN441 (or CNN442). Therefore, as students are required to enrol in CNN441 (or CNN442) as part of the course, they will not need to enrol separately in IFN001.

PROJECT MANAGEMENT SPECIALISATION

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CNP417	Design Management	6	2
CNP426/1	Project Development	6	2
CNP429/1	Cost Management & Economics	6	2
CNP430/1	Current Issues*	9	3
CNP431/1	Project Management*	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management I	6	2
Year 1, Semester 2			
CNP426/2	Project Development	6	2
CNP429/2	Cost Management & Economics	6	2
CNP430/2	Current Issues*	9	3
CNP431/2	Project Management*	6	2
CNP433/2	Project Management Law	6	2

* Compulsory core unit.

CNP437	Field Trip*	12	5 days
	Elective Unit	6	

Year 2, Semester 1

CNN441	Dissertation	48	4
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Part-Time Course Structure

Year 1, Semester 1

CNP417	Design Management	6	2
CNP429/1	Cost Management & Economics	6	2
CNP431/1	Project Management*	6	2
CNP434	Time Management 1	6	2

Year 1, Semester 2

CNP429/2	Cost Management & Economics	6	2
CNP431/2	Project Management*	6	2
CNP437	Field Trip*	12	5 days
	Elective Unit	6	

Year 2, Semester 1

CNP426/1	Project Development	6	2
CNP430/1	Current Issues*	9	3
CNP433/1	Project Management Law	6	2

Year 2, Semester 2

CNP426/2	Project Development	6	2
CNP430/2	Current Issues*	9	3
CNP433/2	Project Management Law	6	2

Year 3, Semester 1

CNN442/1	Dissertation	24	2
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Year 3, Semester 2

CNN442/2	Dissertation	24	2
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PROPERTY DEVELOPMENT SPECIALISATION

Full-Time Course Structure

Year 1, Semester 1

CNP422	Specialist Valuations	6	2
CNP426/1	Project Development	6	2
CNP430/1	Current Issues*	9	3
CNP431/1	Project Management*	6	2
CNP433/1	Project Management Law	6	2
CNP438/1	Real Estate Investment Analysis	6	2
CNP439	Property Management	6	2

Year 1, Semester 2

CNP426/2	Project Development	6	2
CNP430/2	Current Issues*	9	3
CNP431/2	Project Management*	6	2
CNP433/2	Project Management Law	6	2
CNP437	Field Trip*	12	5 days
CNP438/2	Real Estate Investment Analysis	6	2
CNP667	Applied Computing	6	2

Year 2, Semester 1

CNN441	Dissertation	48	4
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* Compulsory core unit.

Part-Time Course Structure

Year 1, Semester 1

CNP426/1	Project Development	6	2
CNP431/1	Project Management*	6	2
CNP438/1	Real Estate Investment Analysis	6	2
CNP439	Property Management	6	2

Year 1, Semester 2

CNP426/2	Project Development	6	2
CNP431/2	Project Management*	6	2
CNP437	Field Trip*	12	5 days
CNP438/2	Real Estate Investment Analysis	6	2

Year 2, Semester 1

CNP422	Specialist Valuations	6	2
CNP430/1	Current Issues*	9	3
CNP433/1	Project Management Law	6	2

Year 2, Semester 2

CNP430/2	Current Issues*	9	3
CNP433/2	Project Management Law	6	2
CNP667	Applied Computing	6	2

Year 3, Semester 1

CNN442/1	Dissertation	24	2
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Year 3, Semester 2

CNN442/2	Dissertation	24	2
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URBAN DESIGN MAJOR

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Coordinator: Mr Danny O'Hare

Entry Requirements

NORMAL ENTRY

A grade point average of 5.0 or better in the Graduate Diploma in Urban Design at the completion of one semester full-time or two semesters part-time.

Relevant professional activity normally means the areas of Architecture, Planning and Landscape Architecture.

PROVISIONAL ENTRY

Applicants with other than normal entry requirements may be registered provisionally in the course if they submit other evidence of academic and professional attainment and candidature is approved by the Dean of the Faculty on the recommendation of the course coordinator.

A person provisionally enrolled is required to satisfactorily undertake a qualifying program which may include course units, and/or such other work as is determined before admission is confirmed. Provisional registration in the course will apply for a maximum period of 12 months for both full-time and part-time students.

* *Compulsory core unit.*

Articulation to the Masters Program from the Graduate Diploma in Urban Design

Applicants are considered initially for acceptance in the Graduate Diploma in Urban Design. At the completion of one semester for full-time students and at the completion of two semesters for those studying part-time, students will be considered for enrolment in the Master of Built Environment (Urban Design). A grade point average of 5.0 or better in the course is normally required for progression to the masters level.

Focus in the Masters Program

The masters program includes skills and knowledge development through set coursework in common with the Graduate Diploma in Urban Design, but also requires individual research and the writing of a dissertation.

Course Requirements

Students must complete a minimum of 48 credit points per semester in the full-time course and a minimum of 24 credit points per semester in the part-time course.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
IFN001	Advanced Information Retrieval Skills	4	1
PSN004	Applied Research Techniques	4	1
PSP401	Urban Design Analysis Studio	12	3
PSP403	Urban Design Conjecture Studio	12	3
PSP405	Urban Design Field Studies	4	10 days
PSP421	History of Urban Systems	4	1
PSP424	Urban Design Theory & Criticism	4	1
Plus a selection from the following totalling at least 4 credit points:			
CNP439	Property Management	6	2
PSP011	Conservation Theory	3	1
PSP411	Environmental Psychology	4	2
PSP416	Computer Aided Data Analysis	2	1
PSP442	Law & Legislation in Urban Design	4	1

Year 1, Semester 2

PSN099	Dissertation	24	
PSP402	Urban Design Context Studio	12	3

Plus a selection of the following totalling a minimum of 12 credit points:

PSN002	Concentration Studies A	4	1
PSN003	Concentration Studies B	8	2
PSP011	Conservation Theory	3	1
PSP432	Urban Landscape	4	1
PSP434	Urban Services & Functions	4	1
PSP441	Computer Applications in Urban Design	4	1
	Elective Unit/s		

Part-Time Course Structure

Year 1, Semester 1

IFN001	Advanced Information Retrieval Skills	4	1
PSP401	Urban Design Analysis Studio	12	3
PSP421	History of Urban Systems	4	1
PSP424	Urban Design Theory & Criticism	4	1

Year 1, Semester 2

PSN004	Applied Research Techniques	4	1
PSP402	Urban Design Context Studio	12	3
PSP405	Urban Design Field Studies	4	10 days

Plus a selection from the following totalling at least 4 credit points:

PSP011	Conservation Theory	3	1
PSP416	Computer Aided Data Analysis	2	1
PSP432	Urban Landscape	4	1
PSP434	Urban Services & Functions	4	1
PSP441	Computer Applications in Urban Design	4	1

Year 2, Semester 1

PSP403	Urban Design Conjecture Studio	12	3
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Plus a selection of the following totalling a minimum of 12 credit points:

CNP439	Property Management	6	2
PSP011	Conservation Theory	3	1
PSP411	Environmental Psychology	4	2
PSP416	Computer Aided Data Analysis	2	1
PSP442	Law & Legislation in Urban Design	4	1

Year 2, Semester 2

PSN099	Dissertation	24	
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■ Master of Engineering (BN72)

Location: Gardens Point campus

Introduction

The objectives of the program are:

- ☐ to provide for postgraduate educational opportunities in design, investigation, development, research or any combination thereof, directly related to professional engineering practice, by means of a program which involves either an advanced contribution to knowledge or an advanced application of existing knowledge
- ☐ to provide further education in research methods
- ☐ to further relationships between the University and industry or other external agencies involved in engineering to their mutual advantage, and
- ☐ to provide formal recognition of work of an advanced nature.

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 Research Management Committee which is a subcommittee of the Academic Committee.

1.3 The Research Management Committee has delegated responsibility for day-to-day administration of research masters degree courses to faculty academic boards. Academic boards shall report biannually to the Research Management 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 Civil, Electrical and Electronic Systems, and Mechanical and Manufacturing Engineering.

1.5 In order to qualify for the award of the degree of 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 between acceptance by the Faculty Research Committee and enrolment by the candidate in the Master of Engineering before the offer of admission to the program lapses. Candidates are required to complete an enrolment form each semester.

2.4 Normal admission will require the candidate to have at least an Honours 2A degree in a bachelor degree in Engineering from the Queensland University of Technology or a qualification judged equivalent by the Faculty Research Committee.

Entry to the program may be allowed to candidates without an Honours 2A degree if the candidate has a grade point average of 5.0 or better in the coursework component of a masters degree program or a graduate diploma program in a relevant discipline, together with demonstrated potential for further study and/or evidence of professional standing.

An applicant for the 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:

- (i) three years professional experience in the general field in which the proposed work lies, or
- (ii) satisfactory completion of an appropriate master's qualifying program including formal coursework and/or reading program in related fields stipulated by the Faculty Research Committee, or
- (iii) the submission of technical publications or other appropriate evidence which satisfies the Faculty Research Committee that advanced knowledge has been acquired in a division of engineering in which the applicant has worked as a professional engineer in a position of responsibility; this knowledge should be relevant to the field of study proposed.

2.5 A candidate shall be registered initially as:

- ☐ a graduate student (provisional) if he or she is to undertake an appropriate qualifying program, or
- ☐ a graduate student if he or she is considered by Faculty Research Committee to meet the requirements for entry.

A graduate student (provisional) becomes a graduate student when registration is confirmed. Applicants not holding an appropriate honours degree or its equivalent shall normally be given provisional registration.

2.6 A candidate shall receive confirmed registration as a graduate student when he or she:

- ☐ has satisfied the requirements for admission and achieved by work and study a standard recognised by the Faculty Research Committee, or
- ☐ has been accepted for provisional registration in the faculty and has achieved, by subsequent work and study, a standard recognised by the Faculty Research Committee
- ☐ has satisfied the Faculty Research Committee that they are a suitable person to undertake the program
- ☐ has 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, and
- ☐ the proposed program has relevance to the needs of industry.

2.8 An application for registration should set out systematically and fully the candidate's intended course of study including the following:

- ☐ a description of the area of study within which the candidate's 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 the Head of School and/or Director of Centre, and
- ☐ any other relevant material.

2.9 The program is offered on a full-time and/or a part-time basis. Part-time students normally will be employed in some professional engineering 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 projects 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 internal or external. An external candidate is one whose program of research is based at a place of employment or sponsoring institution. Normally, support of the sponsoring institution for the candidate's application is required for registration.

2.12 The Faculty Research Committee may cancel a candidate's registration if, after consulting a candidate's supervisors 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 Engineering will undertake necessary project work in design, investigation and research and/or development work on a topic approved by the Faculty Research Committee.

3.2 All projects should be sponsored 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 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 engineering area.

3.4 Where advised, a candidate may be required to complete satisfactorily a qualifying program of formal coursework in units relevant to the field of study up to a total class contact of 48 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 and investigation.

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 Coursework will not occupy more than half of the total period of registration.

4. Period of Time for Completion of Course Study

4.1 The duration of study for candidates with four years of relevant study at tertiary level will normally be up to two years of full-time study 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 graduate full-time 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 graduate part-time student shall present the thesis for examination after a period of at least two years but not more than four years has elapsed 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 first day of the first semester in which the candidate was enrolled as a graduate student. Periods of exclusion or absence with or 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 exclusion by registered mail. They have right of appeal to the Academic Appeals Committee.

5. Supervision

5.1 The Faculty Research Committee shall appoint two or more supervisors with appropriate experience in respect of each candidate. One shall be nominated as the Principal Supervisor and others as associate supervisors. The supervisors shall form a Thesis Panel.

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 Thesis Panel shall supervise all aspects of the candidate's work program, shall receive reports from the candidate on progress and shall recommend 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 Thesis Panel shall receive a formal oral and written report from the candidate at least once every semester on progress on the research project.

6. Place and Conditions of Work

6.1 The research program must normally be carried out under supervision in a suitable environment in Australia.

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 school and/or director of centre in which the study is proposed 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 or centre 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 QUT school or director of centre in which the study is proposed 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/centre 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*.

7.2 Not later than six months after confirmed registration, a candidate shall submit the title of their thesis for approval by the Faculty Research Committee, 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 his or her 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, and

- 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 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 Research Management 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.

8. Examination of Thesis

8.1 The Faculty Research Committee shall appoint two/three examiners, of whom at least one 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 on 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:

- (i) recommend that the thesis be accepted without modification, and to the Academic Committee that the candidate be awarded the degree, or
- (ii) recommend to the Academic Committee that the candidate be awarded the degree, after any minor amendments requested by the examiners have been made, or
- (iii) 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
- (iv) 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.

■ Master of Engineering Science (Civil) (CE74)

Location: Gardens Point campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Mr Robin Black

Entry Requirements

Entrants to the masters degree program must either:

- (i) have obtained a Bachelor of Engineering degree with honours in Civil Engineering, or
- (ii) have obtained a Graduate Diploma with a grade point average of at least 5.0 on a 7 point scale.

Where entrants do not have honours ranking in their Bachelor of Engineering (Civil) degree and/or have not undertaken units equivalent to the available QUT undergraduate units in their chosen area of study, the Head of School may require that additional undergraduate units be undertaken.

Entrants may transfer from the Graduate Diploma in Municipal Engineering (CE63) with a grade point average of at least 5.0 after completion of 50 per cent of the coursework for the Graduate Diploma.

Note: In so doing students must comply with rule 4.1.1 of the Student Rules which states 'for courses of up to and including one year of equivalent full-time study, credit may be given for a maximum of one half of the credit points required for course completion'.

Graduates who have completed the prescribed units for a major will have their award certificates and academic transcripts endorsed "Majoring in..."

Course Structure

The course consists of a minimum of 96 credit points. Either 36 or 20 credit points are allocated to a project and the remainder to the non-project units. The majority of the units are common with the Graduate Diploma in Municipal Engineering (CE63). Students who do not wish to undertake a major must complete the core units plus any other combination of units, to make up the minimum total of 96 credit points. Such programs should be devised in consultation with the course coordinator.

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CEP131	Engineering Management & Administration	12	3
	Units chosen from major	12	3
Year 1, Semester 2			
CEP200	Process Modelling	8	2
	Units chosen from major	16	4
Year 2, Semesters 1 and 2			
CEP999/1/2	Project A* AND	36	9
	Units chosen from major totalling	12	
	OR		
CEP998/1/2	Project B* AND	20	5
	Units chosen from major totalling	28	

* Safety boots must be worn for practical exercises and field trips.

		Year/ Semester of Offer	Credit Points	Contact Hrs/Wk
ENVIRONMENTAL ENGINEERING MAJOR (EVN)				
Compulsory units:				
CEP172	Water Quality Engineering	even, 1	8	2
CEP277	Waste Management	even, 2	12	3
CEP290	Environmental Law & Assessment	odd, 2	8	2
Choose remaining units from the following:				
CEP128	Municipal Engineering Planning	even, 1	12	3
CEP174	Public Health Engineering Practice	odd, 1	12	3
CEP276	Advanced Treatment Processes	odd, 2	8	2
CEP310	Urban Transportation Planning	even, 2	8	2
CEP361	Drainage Engineering	odd, 2	8	2
CHP691	Environmental Chemistry	even, 2	8	2
LOCAL GOVERNMENT ENGINEERING MAJOR (LGN)				
Compulsory units:				
CEP107	Construction Management & Economics	odd, 1	8	2
CEP127	Road & Traffic Engineering	odd, 1	12	3
CEP128	Municipal Engineering Planning	even, 1	12	3
Choose remaining units from the following:				
CEP109	Municipal Law & Regulations	even, 2	8	2
CEP290	Environmental Law & Assessment	odd, 2	8	2
CEP361	Drainage Engineering	odd, 2	8	2
PUBLIC HEALTH ENGINEERING MAJOR (PHN)				
Compulsory units:				
CEP172	Water Quality Engineering	even, 1	8	2
CEP174	Public Health Engineering Practice	odd, 1	12	3
CEP276	Advanced Treatment Processes	odd, 2	8	2
CEP277	Waste Management	even, 2	12	3
Choose remaining units from any other major.				
TRANSPORTATION ENGINEERING MAJOR (TRN)				
Compulsory units:				
CEP127	Road & Traffic Engineering	odd, 1	12	3
CEP215	Advanced Traffic Engineering	odd, 2	12	3
CEP218	Transportation Engineering	odd, 1	12	3
Choose remaining units from the following:				
CEP310	Urban Transportation Planning	even, 2	8	2
CEP361	Drainage Engineering	odd, 2	8	2
Choose remaining units from any other major.				

■ Master of Engineering Science (Computer and Communication Engineering) (EE75)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Anthony Maeder

Entry Requirements

- (i) Bachelor degree in engineering with at least second class honours or equivalent, or
- (ii) Bachelor degree in engineering or equivalent together with successful completion of the Masters Qualifying Program
- (iii) Graduate Diploma in Computer Engineering with a grade point average (GPA) of 5.0 (credit level) or higher will meet the entry requirements for admission to the Master of Engineering Science (Computer Engineering Stream) upgrade program.

Masters Qualifying Program

Applicants who do not meet the entry requirements for the Master of Engineering Science (Computer and Communication Engineering) outlined in (i) above, will be permitted to follow the first semester of the masters program. If in this first semester a GPA of 5.0 or above is attained, candidates will continue to follow the masters program. Otherwise they will continue their studies in the Graduate Diploma in Computer Engineering towards that award.

Masters Upgrade Program

Those who have completed the Graduate Diploma in Computer Engineering may upgrade by undertaking further study in the Master of Engineering Science (Computer Engineering Stream) and be given credit for the units which they have completed at graduate diploma level. The structure of the course dictates that this upgrade program be undertaken on a part-time basis.

Students undertaking the Masters Upgrade Program will enrol in the following units:

Semester 1

EEP302 Research Component 1
(the research components of EEP101, EEP102, EEP123 and EEP124)

Semester 2

EEP301 Project
EEP303 Research Component 2
(the research components of EEP104, EEP120 and EEP129)

Methods of Assessment

Assessment is undertaken in seven units and a project. The seven units are common with the Graduate Diploma in Computer Engineering. The course will also include a research training component in each unit. Candidates who have completed the Graduate Diploma in Computer Engineering will only be required to complete the project and an additional assignment for each unit in the Masters program.

Streams

Two streams are offered in the course: Computer Engineering and Communication Engineering. Students enrol in units in the stream they wish to pursue.

COMMUNICATION ENGINEERING STREAM**Full-Time Course Structure****Credit
Points****Contact
Hrs/Wk****Year 1, Semester 1**

EEP102	Unix & C for Engineers	12	3
EEP135	Advanced Digital Signal Processing	12	3
EEP137	Advanced Topic A	12	3
	Mathematics Elective Unit	12	

Year 1, Semester 2

EEP126	Communications Digital Signal Processing	12	3
EEP127	Advanced Topic B	12	3
EEP128	Detection & Estimation	12	3
EEP301	Project	12	3

Part-Time Course Structure**Year 1, Semester 1**

EEP102	Unix & C for Engineers	12	3
EEP135	Advanced Digital Signal Processing	12	3

Year 1, Semester 2

EEP126	Communications Digital Signal Processing	12	3
EEP128	Detection & Estimation	12	3

Year 2, Semester 1

EEP137	Advanced Topic A	12	3
	Mathematics Elective Unit	12	

Year 2, Semester 2

EEP127	Advanced Topic B	12	3
EEP301	Project	12	3

COMPUTER ENGINEERING STREAM**Full-Time Course Structure****Year 1, Semester 1**

EEP101	Algorithms for Control & Signal Processing	12	3
EEP102	Unix & C for Engineers	12	3
EEP123	Process Control & Robotics	12	3
	OR		
EEP137	Advanced Topic A	12	3
EEP124	Data Communications	12	3

Year 1, Semester 2

EEP104	Real-time Operating Systems	12	3
EEP120	Networks & Distributed Computing	12	3
EEP129	Image Processing & Computer Vision	12	3
	OR		
EEP127	Advanced Topic B	12	3
EEP301	Project	12	3

Part-Time Course Structure**Year 1, Semester 1**

EEP101	Algorithms for Control & Signal Processing	12	3
EEP102	Unix & C for Engineers	12	3

Year 1, Semester 2

EEP104	Real-time Operating Systems	12	3
EEP129	Image Processing & Computer Vision	12	3
	OR		
EEP127	Advanced Topic B	12	3

Year 2, Semester 1

EEP123	Process Control & Robotics	12	3
	OR		
EEP137	Advanced Topic A	12	3
EEP124	Data Communications	12	3

Year 2, Semester 2

EEP120	Networks & Distributed Computing	12	3
EEP301	Project	12	3

Advanced Topics A & B Unit List

Only one of these units will be offered per semester.

Adaptive Filtering & Array Processing

Digital Spectral Analysis

Stochastic Processes

Parallel & Supercomputing

Advanced Engineering Software Tools

OR

Core unit of other stream

Mathematics Elective Units

Students are to consult the course coordinator regarding the selection of an appropriate mathematics unit prior to enrolling.

Master of Engineering Science in Electricity Supply Engineering (EE78)*

Location: Gardens Point Campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Kame Khouzam

Entry Requirements

- (i) a Bachelor degree in Electrical Engineering and at least second class honours with a study of power subjects to third year level
- (ii) students with the degree qualification, but who do not have second class honours may transfer from the Graduate Diploma (Electricity Supply) after completing 48 credit points with a grade point average (GPA) of 5.0 or greater.

* Subject to final University approval.

Full-Time Course Structure**Credit
Points****Contact
Hrs/Wk****Year 1, Semester 1**

Modules (12 of)

48

12

Year 1, Semester 2

EEP230 Thesis A

12

3

EEP231 Thesis B

12

3

Modules (6 of)

24

6

Part-Time Course Structure**Year 1, Semester 1**

Modules (6 of)

24

6

Year 1, Semester 2

Modules (6 of)

24

6

Year 2, Semester 1

EEP230 Thesis

12

3

Modules (3 of)

12

3

Year 2, Semester 2

EEP231 Thesis B

12

3

Modules (3 of)

12

3

Thesis

Students must complete 100 days of supervised professional practice. The thesis is related to this industry experience.

Modules**Weeks****Credit
Points****Contact
Hrs/Wk****Semester 1**

EEP201 Fundamentals of Power System

Earthing

1-5

4

3

EEP202 Thermal Ratings & Heat Transfer

1-5

4

3

EEP204 Power System Load Flow Analysis

1-5

4

3

EEP213 Statistics

1-5

4

3

EEP203 Testing & Condition Monitoring

6-10

4

3

EEP205 Power System Fault Calculations

6-10

4

3

EEP208 Economic Analysis for Power

Systems Engineers

6-10

4

3

EEP210 Abnormal System Voltages

6-10

4

3

EEP206 Project Management

11-15

4

3

EEP209 Power System Harmonics

11-15

4

3

EEP218 Introduction to Automated System

Control & Supervisory Systems

11-15

4

3

EEP219 High Voltage Substation Equipment,

Power Transformers & Reactive

Power Plant

11-15

4

3

Semester 2

EEP207 Overhead Transmission Line Route

Selection

1-5

4

3

EEP211 Basic Power System Protection

1-5

4

3

EEP214 Risk Assessment in the Electricity

Supply Industry

1-5

4

3

EEP221 Limits to Power System Stability

1-5

4

3

EEP212 Advanced Power System Protection

6-10

4

3

EEP215 Reliability

6-10

4

3

EEP216	Transmission Line Design-Electrical	6-10	4	3
EEP223	Load Forecasting	6-10	4	3
EEP217	Transmission Line Design-Mechanical	11-15	4	3
EEP220	Distribution Planning	11-15	4	3
EEP222	Maintenance of Electricity Supply Systems	11-15	4	3
EEP224	Power System Operation	11-15	4	3

■ Master of Engineering Science (Engineering Management) (ME76)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time, 2 years part-time (block release)

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Professor William Scott

Entry Requirements

- (i) a Bachelor's degree in Engineering (or its equivalent) with honours, or
- (ii) a Bachelor's degree in Engineering (or its equivalent), together with a relevant graduate diploma or qualifying program with a grade point average of 5.0 or better, or
- (iii) a Bachelor's degree in Engineering (or its equivalent), together with at least three years' industrial experience, and potential demonstrated through professional activity to undertake a masters degree course.

Part-time students are expected to be employed in some professional engineering capacity during the day and to carry out their QUT studies at night. Students taking the block release option will need to be available for two intensive periods (one week and two weeks) per year for two years.

Students will specialise in either manufacturing systems engineering or plant maintenance.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
HRN113	Management for Engineers	12	3
MEN170	Systems Modelling & Simulation	12	3
MEN190/1	Project	12	3
MEN140	Reliability & Maintenance Optimisation* OR	12	3
MEN171	Advanced Manufacturing Technologies+	12	3
Semester 2			
FNN113	Managerial Accounting for Engineers	12	3
MEN190/2	Project	12	3
MEN280	Engineering Project Management	12	3
MEN240	Maintenance Management & Technology* OR	12	3
MEN270	Manufacturing Resource Planning+	12	3

* For students specialising in plant maintenance.

+ For students specialising in manufacturing systems engineering.

Part-Time Course Structure

Year 1, Semester 1

HRN113	Management for Engineers	12	3
MEN170	Systems Modelling & Simulation	12	3

Year 1, Semester 2

FNN113	Managerial Accounting for Engineers	12	3
MEN240	Maintenance Management & Technology* OR	12	3
MEN270	Manufacturing Resource Planning+	12	3

Year 2, Semester 1

MEN280	Engineering Project Management	12	3
MEN140	Reliability & Maintenance Optimisation* OR	12	3
MEN171	Advanced Manufacturing Technologies+	12	3

Year 2, Semester 2

MEN190	Project	24	6
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Block Release (Part-Time) Course Structure

Year 1, Semester 1

HRN113	Management for Engineers	12	3
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Year 1, Semester 2

FNN113	Managerial Accounting for Engineers	12	3
MEN170	Systems Modelling & Simulation	12	3

Year 2, Semester 1

MEN190/1	Project	12	3
MEN140	Reliability & Maintenance Optimisation* OR	12	3
MEN171	Advanced Manufacturing Technologies+	12	3

Year 2, Semester 2

MEN190/2	Project	12	3
MEN280	Engineering Project Management	12	3
MEN240	Maintenance Management & Technology* OR	12	3
MEN270	Manufacturing Resource Planning+	12	3

■ Master of Project Management (CN77)#

Location: Gardens Point campus

Course Duration: 1.5 years full-time, 3 years part-time

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Andrew Leicester

The first two semesters full-time or four semesters part-time are identical to the Graduate Diploma in Project Management (CN64). Persons admitted to the Master of Project

* For students specialising in plant maintenance.

+ For students specialising in manufacturing systems engineering.

Subject to final University approval.

Management who are graduates of the Graduate Diploma in Project Management will complete CNN441 (one semester full-time) or CNN442 (two semesters part-time).

Entry Requirements

Applicants for admission shall hold:

- (i) a bachelor degree and demonstrated potential in professional activity to undertake a masters degree course, or
- (ii) a bachelor degree and a relevant graduate diploma or qualifying program with a grade point average of 5.0 or better, or
- (iii) qualifications deemed equivalent to (i) or (ii) by the Dean of Faculty on the recommendation of the course coordinator, and
- (iv) shall normally have at least three years of appropriate work experience after graduation.

As the coursework of the Graduate Diploma in Project Management and the Master of Project Management are identical, students may transfer from the graduate diploma to the masters degree program providing that they have a grade point average of 5.0 or better. Students are normally required to transfer at the completion of one semester (48 credit points) of the Graduate Diploma.

At the completion of the coursework component of the masters degree program but before the completion of the Dissertation, students have the option of electing to graduate with the Graduate Diploma in Project Management.

The Graduate Diploma in Project Management has majors in Project Management and Property Development. These areas are also available as majors within the masters degree program.

Note: Whilst the unit CNN411 (or CNN442) Dissertation incorporates the unit IFN001 Advanced Information Retrieval Skills, it is recommended that IFN001 be completed prior to the commencement of the masters degree program or as early in the first semester as possible. The credit point value of IFN001 is incorporated in the credit point value of CNN441 (or CNN442). Therefore because students are required to enrol in CNN441 or CNN442 as part of the masters program, they will not be required to enrol separately in IFN001.

PROJECT MANAGEMENT MAJOR

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CNP417	Design Management	6	2
CNP426/1	Project Development	6	2
CNP429/1	Cost Management & Economics	6	2
CNP430/1	Current Issues*	9	3
CNP431/1	Project Management*	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management I	6	2
Year 1, Semester 2			
CNP426/2	Project Development	6	2
CNP429/2	Cost Management & Economics	6	2
CNP430/2	Current Issues*	9	3
CNP431/2	Project Management*	6	2
CNP433/2	Project Management Law	6	2
CNP437	Field Trip*	12	5 days
	Elective Unit	6	2

* Compulsory core unit.

Year 2, Semester 1

CNN441	Dissertation	48	4
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Part-Time Course Structure**Year 1, Semester 1**

CNP417	Design Management	6	2
CNP429/1	Cost Management & Economics	6	2
CNP431/1	Project Management*	6	2
CNP434	Time Management 1	6	2

Year 1, Semester 2

CNP429/2	Cost Management & Economics	6	2
CNP431/2	Project Management*	6	2
CNP437	Field Trip*	12	5 days
	Elective Unit	6	2

Year 2, Semester 1

CNP426/1	Project Development	6	2
CNP430/1	Current Issues*	9	3
CNP433/1	Project Management Law	6	2

Year 2, Semester 2

CNP426/2	Project Development	6	2
CNP430/2	Current Issues*	9	3
CNP433/2	Project Management Law	6	2

Year 3, Semester 1

CNN442/1	Dissertation	24	2
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Year 3, Semester 2

CNN442/2	Dissertation	24	2
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PROPERTY DEVELOPMENT MAJOR**Full-Time Course Structure****Year 1, Semester 1**

CNP422	Specialist Valuations	6	2
CNP426/1	Project Development	6	2
CNP430/1	Current Issues*	9	3
CNP431/1	Project Management*	6	2
CNP433/1	Project Management Law	6	2
CNP438/1	Real Estate Investment Analysis	6	2
CNP439	Property Management	6	2

Year 1, Semester 2

CNP426/2	Project Development	6	2
CNP430/2	Current Issues*	9	3
CNP431/2	Project Management*	6	2
CNP433/2	Project Management Law	6	2
CNP437	Field Trip*	12	5 days
CNP438/2	Real Estate Investment Analysis	6	2
CNP667	Applied Computing	6	2

Year 2, Semester 1

CNN441	Dissertation	48	4
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* Compulsory core unit.

Part-Time Course Structure

Year 1, Semester 1

CNP426/1	Project Development	6	2
CNP431/1	Project Management*	6	2
CNP438/1	Real Estate Investment Analysis	6	2
CNP439	Property Management	6	2

Year 1, Semester 2

CNP426/2	Project Development	6	2
CNP431/2	Project Management*	6	2
CNP437	Field Trip*	12	5 days
CNP438/2	Real Estate Investment Analysis	6	2

Year 2, Semester 1

CNP422	Specialist Valuations	6	2
CNP430/1	Current Issues*	9	3
CNP433/1	Project Management Law	6	2

Year 2, Semester 2

CNP430/2	Current Issues*	9	3
CNP433/2	Project Management Law	6	2
CNP667	Applied Computing	6	2

Year 3, Semester 1

CNN442/1	Dissertation	24	2
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Year 3, Semester 2

CNN442/2	Dissertation	24	2
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■ Graduate Diploma in Computer Engineering (EE65)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Paul Wilson

Entry Requirements

Applicants must hold a Bachelor's degree in Engineering or Computer Science. Applicants possessing a degree in other areas of technology such as Mathematics, Physics or Chemistry may be required to undertake prerequisite undergraduate units.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
EEP101	Algorithms for Control & Signal Processing	12	3
EEP102	Unix & C for Engineers	12	3
EEP123	Process Control & Robotics	12	3
EEP124	Data Communications	12	3
Year 1, Semester 2			
EEP103	Computer Hardware & Interfacing	12	3
EEP104	Real-time Operating Systems	12	3

* Compulsory core unit.

EEP120	Networks & Distributed Computing	12	3
EEP129	Image Processing & Computer Vision	12	3

Part-Time Course Structure

Year 1, Semester 1

EEP101	Algorithms for Control Engineering	12	3
EEP102	Unix & C for Engineers	12	3

Year 1, Semester 2

EEP104	Real-time Operating Systems	12	3
EEP129	Image Processing & Computer Vision	12	3

Year 2, Semester 1

EEP123	Process Control & Robotics	12	3
EEP124	Data Communications	12	3

Year 2, Semester 2

EEP103	Computer Hardware & Interfacing	12	3
EEP120	Network & Distributed Computing	12	3

■ Graduate Diploma in Electricity Supply Engineering (EE60)*

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr David Birtwhistle

Entry Requirements

A Bachelor degree in Electrical Engineering with a study of power units to third year level.

Full-Time Course Structure	Credit Points	Contact Hrs/Wk
Year 1, Semester 1		
Modules (12 of)	48	12
Year 1, Semester 2		
Modules (12 of)	48	12
Part-Time Course Structure		
Year 1, Semester 1		
Modules (6 of)	24	6
Year 1, Semester 2		
Modules (6 of)	24	6
Year 2, Semester 1		
Modules (6 of)	24	6

* Subject to final University approval.

Year 2, Semester 2

Modules (6 of)

24

6

MODULES	Weeks	Credit Points	Contact Hrs/Wk
Semester 1			
EEP201 Fundamentals of Power System Earthing	1-5	4	3
EEP202 Thermal Ratings & Heat Transfer	1-5	4	3
EEP204 Power System Load Flow Analysis	1-5	4	3
EEP213 Statistics	1-5	4	3
EEP203 Testing & Condition Monitoring	6-10	4	3
EEP205 Power System Fault Calculations	6-10	4	3
EEP208 Economic Analysis for Power Systems Engineers	6-10	4	3
EEP210 Abnormal System Voltages	6-10	4	3
EEP206 Project Management	11-15	4	3
EEP209 Power System Harmonics	11-15	4	3
EEP218 Introduction to Automated System Control & Supervisory Systems	11-15	4	3
EEP219 High Voltage Substation Equipment, Power Transformers & Reactive Power Plant	11-15	4	3
Semester 2			
EEP207 Overhead Transmission Line Route Selection	1-5	4	3
EEP211 Basic Power System Protection	1-5	4	3
EEP214 Risk Assessment in the Electricity Supply Industry	1-5	4	3
EEP221 Limits to Power System Stability	1-5	4	3
EEP212 Advanced Power System Protection	6-10	4	3
EEP215 Reliability	6-10	4	3
EEP216 Transmission Line Design - Electrical	6-10	4	3
EEP223 Load Forecasting	6-10	4	3
EEP217 Transmission Line Design - Mechanical	11-15	4	3
EEP220 Distribution Planning	11-15	4	3
EEP222 Maintenance of Electricity Supply Systems	11-15	4	3
EEP224 Power System Operation	11-15	4	3

■ Graduate Diploma in Industrial Design (AR61)**Location:** Gardens Point campus**Course Duration:** 1 year full-time, 2 years part-time**Total Credit Points:** 96**Standard Credit Points/Full-Time Semester:** 48**Course Coordinator:** Associate Professor Vesna Popovic**Entry Requirements**

To be eligible for admission, an applicant must:

- (i) hold an approved degree or diploma from a recognised tertiary institution, or

- (ii) have attained professional recognition by an equivalent course of study or examination.

Professional Recognition

The Graduate Diploma in Industrial Design has been accredited by the Design Institute of Australia (DIA). Graduates are eligible for Associate membership on graduation.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Semester 1			
ARP613	Advanced Ergonomics 1	2	1
ARP642	Case Studies	4	2
ARP671	History, Theory & Criticism of Industrial Design	2	1
ARP672	Industrial Design 1	16	6
ARP674	Industrial Design Research 1	20	8
ARP676	Advanced Computer-aided Industrial Design 1	4	2
Semester 2			
ARP623	Advanced Ergonomics 2	4	2
ARP652	Design Management & Decision Theory	2	1
ARP653	Professional Practice	2	1
ARP673	Industrial Design 2	16	6
ARP675	Industrial Design Research 2	20	8
ARP677	Advanced Computer-aided Industrial Design 2	4	2

Part-Time Course Structure

Year 1, Semester 1

ARP613	Advanced Ergonomics 1	2	1
ARP671	History, Theory & Criticism of Industrial Design	2	1
ARP672	Industrial Design 1	16	6
ARP676	Advanced Computer-aided Industrial Design 1	4	2

Year 1, Semester 2

ARP623	Advanced Ergonomics 2	4	2
ARP673	Industrial Design 2	16	6
ARP677	Advanced Computer-aided Industrial Design 2	4	2

Year 2, Semester 1

ARP642	Case Studies	4	2
ARP674	Industrial Design Research 1	20	8

Year 2, Semester 2

ARP652	Design Management & Decision Theory	2	1
ARP653	Professional Practice	2	1
ARP675	Industrial Design Research 2	20	8

■ Graduate Diploma in Interior Design (AR62)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Peter Hedley

Entry Requirements

To be eligible for admission, an applicant must:

- (i) hold an approved degree or diploma from a recognised tertiary institution, or
- (ii) have attained professional recognition by an equivalent course of study or examination.

Professional Recognition

The Graduate Diploma in Interior Design is currently being accredited by the Design Institute of Australia.

Full-Time Course Structure		Credit Points	Contact Hrs/wk
Semester 1			
ARP502	Advanced Interior Design 1	18	7
ARP506	Brief Development	8	2
ARP507	Professional Practice for Interior Designers	12	4
ARP601	Setting the Scene	10	3
Semester 2			
ARP503	Advanced Interior Design 2	18	6
ARP604	Conservation of Historic Interiors	14	6
ARP605	Building Evaluation	8	2
ARP606	Elective Unit	8	2
Part-Time Course Structure			
Year 1, Semester 1			
ARP502	Advanced Interior Design 1	18	7
ARP506	Brief Development	8	2
Year 1, Semester 2			
ARP503	Advanced Interior Design 2	18	6
ARP605	Building Evaluation	8	2
Year 2, Semester 1			
ARP507	Professional Practice for Interior Designers	12	4
ARP601	Setting the Scene	10	3
Year 2, Semester 2			
ARP604	Conservation of Historic Interiors	14	6
ARP606	Elective Unit	8	2

Elective Units

All electives undertaken must have the prior approval of the course coordinator.

■ Graduate Diploma in Landscape Architecture (PS66)

Location: Gardens Point campus

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr George Williams

Entry Requirements

To be eligible for normal admission, an applicant must:

- (i) hold a degree or diploma from a recognised tertiary institution, or
- (ii) have attained professional recognition by a course of study or examination.

Special entry provisions also apply. Prior to beginning studies in the course (but not necessarily prior to application for admission) applicants are required to have appropriate skills and knowledge in basic design/perception, free-hand graphics, and technical drawing.

Graduates of the Bachelor of Built Environment (Landscape Architecture) are credited with Year 1 (full-time) or Years 1 and 2 (part-time). Students from other backgrounds may be granted credit as appropriate to their education and experience.

Professional Recognition

The Graduate Diploma in Landscape Architecture is accredited by the Australian Institute of Landscape Architects.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
PSP011	Conservation Theory	3	1
PSP210	History of Landscape Design	3	2
PSP212	User & Character Design Studies	12	6
PSP220	Introduction to Practice 1	6	3
PSP230	Landscape Ecology 1	6	4
PSP240	Landscape Graphics 1	6	3
PSP250	Map & Air Photo Interpretation	3	1
PSP251	Landscape Construction 1	9	4
Year 1, Semester 2			
PSP019	Planting Design	3	1
PSP213	Site Planning	12	4
PSP221	Introduction to Practice 2	6	3
PSP232	Landscape Ecology 2	9	3
PSP233	Impacts & Assessment	3	2
PSP241	Landscape Graphics 2	6	2
PSP252	Landscape Construction 2	9	3
Year 2, Semester 1			
PSP214	Residential Landscape Design	12	3
PSP215	Urban Landscape Design	12	3
PSP222	Landscape Practice 1	6	2
PSP234	Landscape Management A	6	4
PSP242	Advanced Landscape Graphics	6	2
PSP253	Advanced Landscape Construction 1	6	3
Year 2, Semester 2			
PSP216	Landscape Planning	12	4
PSP217	Landscape Design	18	5
PSP223	Landscape Practice 2	3	2
PSP235	Landscape Management B	6	4
PSP254	Advanced Landscape Construction 2	6	3
PSP260	School Field Trip	3	7-10 days

Part-Time Course Structure

Year 1, Semester 1

PSP210	History of Landscape Design	3	2
PSP220	Introduction to Practice 1	6	3
PSP230	Landscape Ecology 1	6	4
PSP240	Landscape Graphics 1	6	3
PSP250	Map & Air Photo Interpretation	3	1

Year 1, Semester 2

PSB019	Planting Design	3	1
PSP221	Introduction to Practice 2	6	3
PSP232	Landscape Ecology 2	9	3
PSP241	Landscape Graphics 2	6	2

Year 2, Semester 1

PSP011	Conservation Theory	3	1
PSP212	User & Character Design Studies	12	6
PSP251	Landscape Construction 1	9	4

Year 2, Semester 2

PSP213	Site Planning	12	4
PSP233	Impacts & Assessment	3	2
PSP252	Landscape Construction 2	9	3

Year 3, Semester 1

PSP214	Residential Landscape Design	12	3
PSP242	Advanced Landscape Graphics	6	2
PSP253	Advanced Landscape Construction 1	6	3

Year 3, Semester 2

PSP216	Landscape Planning	12	4
PSP235	Landscape Management B	6	4
PSP254	Advanced Landscape Construction 2	6	3

Year 4, Semester 1

PSP215	Urban Landscape Design	12	3
PSP222	Landscape Practice 1	6	2
PSP234	Landscape Management A	6	4

Year 4, Semester 2

PSP217	Landscape Design	18	5
PSP223	Landscape Practice 2	3	2
PSP260	School Field Trip	3	7-10 days

■ Graduate Diploma in Municipal Engineering (CE63)

Location: Gardens Point campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Mr Robin Black

Entry Requirements

NORMAL ENTRY

To be eligible for admission an applicant must hold an acceptable degree or diploma in engineering from a recognised institution.

QUALIFYING ENTRY

Applicants who do not meet the requirements for normal entry but who hold a degree or diploma in a technological field or other equivalent qualifications or hold professional engineering recognition may be required to complete such prerequisite engineering units as may be determined by the Head of the School of Civil Engineering prior to enrolment in the course.

Course Structure

The course has four majors. It consists of 40 credit points (10 semester hours) of core material common to all majors and a minimum of 56 credit points (14 semester hours) of material prescribed for majors. The majority of the units are common with the Master of Engineering Science (Civil) (CE74).

Students may transfer from the Graduate Diploma in Municipal Engineering to the Master of Engineering Science (Civil) providing they have obtained a grade point average of at least 5.0 after completion of 50 per cent of the coursework of the graduate diploma.

Note: In so doing, students must comply with rule 4.1.1 of the Student Rules which states 'for courses of up to and including one year of equivalent full-time study, credit may be given for a maximum of one half of the credit points required for course completion'.

Students who do not wish to undertake a major must complete the core units plus any combination of units from the majors totalling at least 56 credit points. Programs should be devised in consultation with the course coordinator.

Graduates who have completed the prescribed units for a major will have their award certificates and academic transcripts endorsed "Majoring in..."

Course Structure – All Majors

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CEP128	Municipal Engineering Planning (offered even years)	12	3
CEP131	Engineering Management & Administration	12	3
Year 1, Semester 2			
CEP200	Process Modelling	8	2
CEP361	Drainage Engineering (offered odd years)	8	2
	Unit chosen from major	8	2
Year 2, Semester 1			
	Units chosen from major	24	6
Year 2, Semester 2			
	Units chosen from major	24	6

		Year/ Semester of Offer	Credit Points	Contact Hrs/Wk
ENVIRONMENTAL ENGINEERING MAJOR (EVN)				
CEP172	Water Quality Engineering	even, 1	8	2
CEP174	Public Health Engineering Practice	odd, 1	12	3
CEP276	Advanced Treatment Processes	odd, 2	8	2
CEP277	Waste Management	even, 2	12	3
CEP290	Environmental Law & Assessment	odd, 2	8	2
CHP691	Environmental Chemistry	even, 2	8	2

LOCAL GOVERNMENT ENGINEERING MAJOR (LGN)

CEP107	Construction Management & Economics	odd, 1	8	2
CEP109	Municipal Law & Regulations	even, 2	8	2
CEP127	Road & Traffic Engineering	odd, 1	12	3
CEP174	Public Health Engineering Practice	odd, 1	12	3

Plus units totalling at least 16 credit points from any other major.*

PUBLIC HEALTH ENGINEERING MAJOR (PHN)

CEP172	Water Quality Engineering	even, 1	8	2
CEP174	Public Health Engineering Practice	odd, 1	12	3
CEP276	Advanced Treatment Processes	oddd, 2	8	2
CEP277	Waste Management	even, 2	12	3

Plus units totalling at least 16 credit points from any other major.*

TRANSPORTATION ENGINEERING MAJOR (TRN)

CEP127	Road & Traffic Engineering	odd, 1	12	3
CEP215	Advanced Traffic Engineering	odd, 2	12	2
CEP218	Transportation Engineering	even, 1	12	3
CEP310	Urban Transportation Planning	even, 2	8	2

Plus units totalling at least 16 credit points from any other major.*

■ Graduate Diploma in Project Management (CN64)

Location: Gardens Point campus

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Andrew Leicester

Entry Requirements

To be eligible for admission an applicant must:

- hold an approved degree or diploma from a recognised tertiary institution, or
- have attained professional recognition by an equivalent course of study or examination, and
- have a minimum of three years of relevant experience after graduation.

Where an equivalent course of study or examination cannot be readily established, an applicant, at the discretion of the Dean of Faculty, may be permitted to undertake a

* Includes CEP491 Municipal Engineering Practice (16 credit points and 4 contact hours) which is available in any semester.

qualifying examination, the satisfactory completion of which will entitle the applicant to the status of a graduate or diplomate for the purpose of admission.

Note: It is strongly recommended that all graduate diploma students complete the unit IFN001 Advanced Information Retrieval Skills before commencing the course or early in Semester 1. The credit points of this unit will not be included in the total credit points which must be completed for the award of the graduate diploma.

PROJECT MANAGEMENT MAJOR

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Semester 1			
CNP417	Design Management	6	2
CNP426/1	Project Development	6	2
CNP429/1	Cost Management & Economics	6	2
CNP430/1	Current Issues*	9	3
CNP431/1	Project Management*	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management 1	6	2

Semester 2

CNP426/2	Project Development	6	2
CNP429/2	Cost Management & Economics	6	2
CNP430/2	Current Issues*	9	3
CNP431/2	Project Management*	6	2
CNP433/2	Project Management Law	6	2
CNP437	Field Trip*	12	5 days
	Elective Unit	6	

Part-Time Course Structure

Year 1, Semester 1

CNP417	Design Management	6	2
CNP429/1	Cost Management & Economics	6	2
CNP431/1	Project Management*	6	2
CNP434	Time Management 1	6	2

Year 1, Semester 2

CNP429/2	Cost Management & Economics	6	2
CNP431/2	Project Management*	6	2
CNP437	Field Trip*	12	5 days
	Elective Unit	6	

Year 2, Semester 1

CNP426/1	Project Development	6	2
CNP430/1	Current Issues*	9	3
CNP433/1	Project Management Law	6	2

Year 2, Semester 2

CNP426/2	Project Development	6	2
CNP430/2	Current Issues*	9	3
CNP433/2	Project Management Law	6	2

PROPERTY DEVELOPMENT MAJOR

Full-Time Course Structure

Year 1, Semester 1

CNP422	Specialist Valuation	6	2
CNP426/1	Project Development	6	2
CNP430/1	Current Issues*	9	3

* Compulsory core unit.

CNP431/1	Project Management*	6	2
CNP433/1	Project Management Law	6	2
CNP438/1	Real Estate Investment Analysis	6	2
CNP439	Property Management	6	2

Year 1, Semester 2

CNP426/2	Project Development	6	2
CNP430/2	Current Issues*	9	3
CNP431/2	Project Management*	6	2
CNP433/2	Project Management Law	6	2
CNP437	Field Trip*	12	5 days
CNP438/2	Real Estate Investment Analysis	6	2
CNP667	Applied Computing	6	2

Part-Time Course Structure

Year 1, Semester 1

CNP426/1	Project Development	6	2
CNP431/1	Project Management*	6	2
CNP438/1	Real Estate Investment Analysis	6	2

Year 1, Semester 2

CNP426/2	Project Development	6	2
CNP431/2	Project Management*	6	2
CNP437	Field Trip*	12	5 days
CNP438/2	Real Estate Investment Analysis	6	2

Year 2, Semester 1

CNP422	Specialist Valuation	6	2
CNP430/1	Current Issues*	9	3
CNP433/1	Project Management Law	6	2

Year 2, Semester 2

CNP430/2	Current Issues*	9	3
CNP433/2	Project Management Law	6	2
CNP667	Applied Computing	6	2

■ Graduate Diploma in Surveying Practice (PS68)

Location: Gardens Point campus

Course Duration: 1 year full-time (34 weeks)

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Ian McGhie

Professional Recognition

Successful completion of the course leads to the award of Graduate Diploma in Surveying Practice, and licensing by the Surveyors Board of Queensland.

* *Compulsory core unit.*

Entry Requirements

NORMAL ENTRY

To be eligible for admission an applicant must hold the following:

- (i) a Bachelor of Applied Science (Surveying) degree from the Queensland University of Technology, or
- (ii) a Bachelor of Surveying degree from the University of Queensland, or
- (iii) from another tertiary institution a degree acceptable to the Surveyors Board of Queensland and considered by the Head of the School of Planning, Landscape Architecture and Surveying to be at least equivalent to QUT's Bachelor of Applied Science (Surveying) degree.

QUALIFYING ENTRY

Applicants who do not meet the requirements for normal entry but who hold a tertiary qualification in a technological field or other equivalent qualification may be required to complete such prerequisite surveying and other units as may be determined by the Head of School prior to enrolment in the course.

PRIOR PRACTICAL EXPERIENCE

It is desirable though not essential that applicants for admission have at least one year of practical experience in the practice of surveying following graduation.

Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
PSP311	Professional Practice Management	12	9
PSP312	Survey Computing & Processing	8	6
PSP313	Survey Project Management	8	6
PSP314	Boundary Definition Surveys 1	12	9
PSP315	Property Development Surveys	8	6
Semester 2			
PSP321	Spatial Information Systems	8	6
PSP322	Engineering Surveying	12	9
PSP323	Project Site Surveys	8	6
PSP324	Boundary Definition Surveys 2	12	9
PSP325	Property Management Surveys	8	6

■ Graduate Diploma in Urban and Regional Planning (PS67)

Location: Gardens Point campus

Course Duration: 2 years full-time, 3.5 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Brian Hudson

Entry Requirements

To be eligible for admission, an applicant must:

- (i) hold a degree or diploma from a recognised tertiary institution, or
- (ii) have attained professional recognition by an equivalent course of study or examination.

Notes

Graduates of the Bachelor of Built Environment (Urban and Regional Planning) shall be credited with Year 1 (full-time) or Years 1 and 2 (part-time) of the course. Students from other backgrounds will be granted credit as appropriate to their education and experience.

Students who do not have basic graphics skills are required to attend a QUT graphics workshop/summer school before being permitted to enter the Graduate Diploma in Urban and Regional Planning program. Students must demonstrate competency in environmental studies prior to undertaking PSB001 Environmental Impacts.

Full-Time Course Structure

Credit Points

Contact Hrs/Wk

Year 1, Semester 1

COP115	Professional Communication	4	2
PSB077	Transport Planning	6	2
PSP003	Economics of Town Planning	6	2
PSP110	Site Planning Practice & Law	12	4
PSP112	Site Planning Methods	4	1
PSP113	Theory of Site Planning	4	1
PSP114	Introduction to Maps & Air Photos	4	1
PSP115	Planning Processes	8	2

Year 1, Semester 2

ISB183	Introduction to Computers in Planning	4	1
PSB059	Population & Urban Studies	6	2
PSB078	Urban Land Development	6	2
PSP001	Environmental Impacts	6	2
PSP002	History of Planning	4	1
PSP063	Housing & Community Services	6	2
PSP120	Urban Design Practice	12	3
PSP126	Urban Design Methods	4	1

Year 2, Semester 1

PSP130	Planning Practice & Law (Urban)	12	4
PSP133	Rural Land Use & Planning	4	1
PSP134	Theories for Planning	12	3
PSP136	Regional Planning Methods	6	2
PSP137	Resource Management	8	2
PSP138	Computer Applications in Planning	6	2

Year 2, Semester 2

PSP060	School Field Trip	4	7-10 days
PSP140	Planning Practice & Law (Regional & Strategic)	12	4
PSP144	Urban Policy Implementation	4	1
PSP145	Social Planning	4	1
PSP146	Procedural Planning Theory	4	1
PSP147	Professional Procedures & Ethics	4	1
PSP150	Research Methods & Individual Project	16	2

Part-Time Course Structure

Year 1, Semester 1

COP115	Professional Communication	4	2
PSP110	Site Planning Practice & Law	12	4
PSP112	Site Planning Methods	4	1
PSP113	Theory of Site Planning	4	1
PSP115	Planning Processes	8	2

Year 1, Semester 2

ISB183	Introduction to Computers in Planning	4	1
PSB059	Population & Urban Studies	6	2

PSP002	History of Planning	4	1
PSP120	Urban Design Practice	12	3
PSP126	Urban Design Methods	4	1

Year 2, Semester 1

PSP003	Economics of Town Planning	6	2
PSP114	Introduction to Maps & Air Photos	4	1
PSP134	Theories for Planning	12	3
PSP138	Computer Applications in Planning	6	2

Year 2, Semester 2

PSB078	Urban Land Development	6	2
PSP001	Environmental Impacts	6	2
PSP060	School Field Trip	4	7-10 days
PSP063	Housing & Community Services	6	2
PSP145	Social Planning	4	1
PSP146	Procedural Planning Theory	4	1

Year 3, Semester 1

PSB077	Transport Planning	6	2
PSP130	Planning Practice & Law (Urban)	12	4
PSP133	Rural Land Use & Planning	4	1
PSP136	Regional Planning Methods	6	2

Year 3, Semester 2

PSP140	Planning Practice & Law (Regional & Strategic)	12	4
PSP144	Urban Policy Implementation	4	1
PSP147	Professional Procedures & Ethics	4	1
PSP150	Research Methods & Individual Project*		

Year 4, Semester 1

PSP137	Resource Management	8	2
PSP150	Research Methods & Individual Project	16	2

■ Graduate Diploma in Urban Design (PS69)

Course Duration: 1 year full-time, 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Danny O'Hare

Entry Requirements

NORMAL ENTRY

To be eligible for admission an applicant must hold a bachelor degree with a grade point average of 5.0 or better and demonstrated potential in a relevant professional activity, or a relevant graduate diploma with a grade point average of 5.0 or better, or a qualifying program with a grade point average of 5.0 or better.

GRADUATE DIPLOMA – MASTERS LEVEL ARTICULATION

Applicants are considered initially for acceptance in the Graduate Diploma in Urban Design. At the completion of one semester for full-time students and two semesters for those studying part-time, students will be considered for enrolment in the Master of Built Environment (Urban Design). A grade point average of 5.0 or better in the course is normally required for progression to the masters level.

* Students attend classes but do not enrol in this semester. Individual Project is prepared and submitted in the next semester.

■ Graduate Certificate in Electricity Supply Engineering (EE82)*

Location: Gardens Point campus

Course Duration: 1 semester full-time, 1 year part-time

Total Credit Points: 48

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Ian Vosper

Entry Requirements

A Bachelor degree in Electrical Engineering with a study of power subjects to third year level.

Full-Time Course Structure	Credit Points	Contact Hrs/Wk
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Year 1, Semester 1		
Modules (12 of)	48	12

Part-Time Course Structure

Year 1, Semester 1		
Modules (6 of)	24	6

Year 1, Semester 2		
Modules (6 of)	24	6

Modules	Weeks	Credit Points	Contact Hrs/Wk
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Semester 1

EEP201	Fundamentals of Power System Earthing	1-5	4	3
EEP202	Thermal Ratings & Heat Transfer	1-5	4	3
EEP204	Power System Load Flow Analysis	1-5	4	3
EEP213	Statistics	1-5	4	3
EEP203	Testing & Condition Monitoring	6-10	4	3
EEP205	Power System Fault Calculations	6-10	4	3
EEP208	Economic Analysis for Power Systems Engineers	6-10	4	3
EEP210	Abnormal Systems Voltages	6-10	4	3
EEP206	Project Management	11-15	4	3
EEP209	Power System Harmonics	11-15	4	3
EEP218	Introduction to Automated System Control & Supervisory Systems	11-15	4	3
EEP219	High Voltage Substation Equipment, Power Transformers & Reactive Power Plant	11-15	4	3

Semester 2

EEP207	Overhead Transmission Line Route Selection	1-5	4	3
EEP211	Basic Power System Protection	1-5	4	3
EEP214	Risk Assessment in the Electricity Supply Industry	1-5	4	3

* Subject to final University approval.

EEP221	Limits to Power System Stability	1-5	4	3
EEP212	Advanced Power System Protection	6-10	4	3
EEP215	Reliability	6-10	4	3
EEP216	Transmission Line Design-Electrical	6-10	4	3
EEP223	Load Forecasting	6-10	4	3
EEP217	Transmission Line Design-Mechanical	11-15	4	3
EEP220	Distribution Planning	11-15	4	3
EEP222	Maintenance of Electricity Supply Systems	11-15	4	3
EEP224	Power System Operation	11-15	4	3

■ Graduate Certificate in Project Development (CN81)

With specialisations in: Construction Management, Project Management, Property Development, and Property Economics

Location: Gardens Point campus

Course Duration: 1 year part-time

Total Credit Points: 48

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Mr Andrew Leicester

Entry Requirements

NORMAL ENTRY

An applicant must:

- (i) hold a relevant degree or diploma from a recognised University, College of Advanced Education or approved tertiary institution, or
- (ii) hold degree-equivalent professional qualifications.

SPECIAL ENTRY

An applicant must:

- (i) have extensive, relevant, professional experience as determined by the course coordinator
- (ii) for the specialisations in Project Management and Property Development, have a minimum of three years relevant experience after graduation.

Course Structure

No exemptions are permitted. If a unit has been studied previously then an alternative should be selected.

If students have opted for the specialisations in Project Management or Property Development, after the successful completion of one graduate certificate, they may, on gaining admission to the Graduate Diploma in Project Management, complete a further 48 credit points in the same discipline with the guidance and approval of the course coordinator and be granted the graduate diploma in that discipline.

It should be noted that some units are available in concentrated format over a period of one, two or three days rather than in the standard format of two hours per week for one or two semesters. These will be run only if there is sufficient demand and will be self funding from fees charged.

It is strongly recommended that all graduate certificate students complete the unit IFN001 Advanced Information Retrieval Skills prior to commencing the course or early in Semester 1. The credit point value of this unit is not included in the total credit points which must be completed to be awarded a graduate certificate.

CONSTRUCTION MANAGEMENT SPECIALISATION

Students must complete a total of 48 credit points from the following units:

		Credit Points	Contact Hrs/Wk
Semester 1			
CNB601	Formwork Design & Construction	4	2
CNP426/1	Project Development	6	2
CNP429/1	Cost Management & Economics	6	2
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management 1	6	2
	(Foreshadowed)		
	Legal Studies	6	2
Semester 2			
CNP426/2	Project Development	6	2
CNP429/2	Cost Management & Economics	6	2
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP667	Applied Computing	6	2
	(Foreshadowed)		
	Financial Management	6	2

PROJECT MANAGEMENT SPECIALISATION

Students must complete a total of 48 credit points from the following units:

Semester 1

CNP417	Design Management	6	2
CNP426/1	Project Development	6	2
CNP429/1	Cost Management & Economics	6	2
CNP430/1	Current Issues	9	3
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management 1	6	2

Semester 2

CNP426/2	Project Development	6	2
CNP429/2	Cost Management & Economics	6	2
CNP430/2	Current Issues	9	3
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP437	Field Trip	12	5 days
CNP667	Applied Computing	6	2

PROPERTY DEVELOPMENT SPECIALISATION

Students must complete a total of 48 credit points from the following units:

Semester 1

CNP422	Specialist Valuations	6	2
CNP426/1	Project Development	6	2
CNP430/1	Current Issues	9	3
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP438/1	Real Estate Investment Analysis	6	2
CNP439	Property Management	6	2

Semester 2

CNP426/2	Project Development	6	2
CNP430/2	Current Issues	9	3
CNP431/2	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP437	Field Trip	12	5 days
CNP438/2	Real Estate Investment Analysis	6	2
CNP667	Applied Computing	6	2

PROPERTY ECONOMICS SPECIALISATION

Students must complete a total of 48 credit points from the following units:

Semester 1

CNP422	Specialist Valuations	6	2
CNP426/1	Project Development	6	2
CNP430/1	Current Issues	9	3
CNP431/1	Project Management	6	2
CNP438/1	Real Estate Investment Analysis	6	2
CNP439	Property Management	6	2

Semester 2

CNB471	Property Practice Law	8	2.5
CNB472	Property Taxation Issues	8	2
CNB564	Valuation 7	8	3
CNB626	Land Development Studies	4	2
CNP426/2	Project Development	6	2
CNP430/2	Current Issues	9	3
CNP431/2	Project Management	6	2
CNP438/2	Real Estate Investment Analysis	6	2
CNP667	Applied Computing	6	2

Note: A Graduate Certificate in Project Development with no specialisation can also be taken by enrolling in 48 credit points from the following list:

Semester 1

CNB601	Formwork Design & Construction	4	2
CNP417	Design Management	6	2
CNP422	Specialist Valuations	6	2
CNP426/1	Project Development	6	2
CNP429/1	Cost Management & Economics	6	2
CNP430/1	Current Issues	9	3
CNP431/1	Project Management	6	2
CNP433/1	Project Management Law	6	2
CNP434	Time Management I	6	2
CNP438/1	Real Estate Investment Analysis	6	2
CNP439	Property Management	6	2

Semester 2

CNB471	Property Practice Law	8	2.5
CNB472	Property Taxation Issues	8	2
CNB564	Valuation 7	8	3
CNB626	Land Development Studies	4	2
CNP426/2	Project Development	6	2
CNP429/2	Cost Management & Economics	6	2
CNP430/2	Current Issues	9	3
CNP431	Project Management	6	2
CNP433/2	Project Management Law	6	2
CNP437	Field Trip	12	5 days
CNP438/2	Real Estate Investment Analysis	6	2
CNP667	Applied Computing	6	2

It is possible for other units to be taken with the prior approval of the course coordinator, in order that the specific needs of individual students are met.

☐ **Course Requirements and Notes Relating to Undergraduate Courses**

Course Progression

It is important that students follow as normal a progression through their courses as possible. Units should be taken in an orderly sequence as set out in published course structures. Units failed should be picked up in the next semester that they are offered. In order to maintain orderly progression through a course, a prerequisite requirement **may** be waived, if a student has attempted but not passed the prerequisite and the approval of the course coordinator has been obtained. This is considered to be a major concession. Students who have failed units or have doubts about having the necessary background to proceed, should seek the advice of the course coordinator.

Supplementary Assessment

It is not normally faculty policy to grant supplementary examinations. However, at the discretion of the Dean of the Faculty, supplementary or further assessment may be permitted in cases where a student is near to the completion of their course.

In such cases it is normal policy to award an 'A' (Result Unfinalised) and to give the student further assessment. Following satisfactory completion of this further assessment the highest grade which may normally be awarded is a grade of 3 (Pass Conceded).

Field Trips

Attendance at field trips or field projects in engineering courses is compulsory.

School of Civil Engineering Safety Shoes Policy

Students enrolled in units specified by the School of Civil Engineering will be required to wear safety shoes for some laboratory practicals and/or field trips. Students not wearing appropriate safety shoes on these occasions will be barred from (i) participating in activities in these units, and (ii) submitting any assessment associated with these activities. Hard hats and safety glasses/goggles will be supplied by the School of Civil Engineering if required.

Industrial Experience for Engineering and Surveying Courses

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

Candidates must, not later than the fourth week of semester immediately following each period of industrial employment/practice, submit to the course coordinator (through the Faculty Office), a report in the required format describing the work carried out during the period of employment/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the Faculty Industrial Employment Officer in Room 602 O Block, Gardens Point campus and also from the Faculty Office.

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

A candidate for the degree of **Bachelor of Applied Science (Surveying)** must obtain at least 90 days of industrial employment/practice in a surveying environment approved by the course coordinator.

Candidates in the **Bachelor of Engineering (Aerospace Avionics)** degree are required to obtain 10 days specialist experience in the avionics industry during the first year of their course as part of the industrial employment/practice requirement.

A candidate for an **Associate Diploma of Engineering** should refer to the relevant course structure for specific industrial employment/practice requirements for these courses.

ENROLMENT IN INDUSTRIAL EMPLOYMENT/PRACTICE

Students in the **Bachelor of Applied Science (Surveying)** and **Bachelor of Engineering** courses **should not formally enrol** in industrial employment/practice.

However students in **Associate Diploma of Engineering** courses **must enrol** in industrial experience units as these units carry credit points. For these students, the enrolment must be in the semester in which students expect to submit an Industrial Experience Record Form which will fulfil the minimum requirement of five weeks for the unit.

Industrial Experience for the Bachelor of Architecture Course

A candidate for the **Bachelor of Architecture** degree must be engaged in approved employment for at least 48 recognised weeks within the first 3 years (Approved employment A), and for at least 72 recognised weeks within the second 3 years (Approved Employment B).

- 'Approved employment' is defined as working under the direction of an architect who is registered within the place of practice where the experience is obtained. Experience in related areas, not exceeding 12 weeks in Approved Employment A, and 18 weeks in Approved Employment B may be granted. Periods of work experience of less than 8 recognised weeks continuous duration cannot be accredited.
- A 'recognised week' is a week of 5 days employment. During semester, when students normally work for 4 days per week, the 18 week semester (14 weeks in class and 4 weeks in examination), translates to 14.4 'recognised weeks'. This figure is rounded off to 14 weeks to take account of public holidays. Students in full employment would normally accumulate 40 recognised weeks in a calendar year.
- Candidates who are admitted directly into the course after the end of the third year must satisfy Approved Employment B only.
- Approved Employment A is normally a prerequisite for Approved Employment B.
- Candidates may accumulate up to 24 recognised weeks in Approved Employment A and 36 recognised weeks in Approved Employment B during periods of approved leave of absence from formal classes.
- Candidates must enrol in Approved Employment A in the second semester of third year and then cannot proceed to fourth year until this unit of employment is satisfied, unless a special dispensation is granted. Candidates must enrol in Approved Employment B in the second semester of sixth year and will not be eligible to graduate until this unit of employment is satisfied.
- Update reports on progress are required from candidates at the end of each semester and examination results may not be issued until they are submitted.

■ Bachelor of Applied Science (Construction Management) (CN31)*

Location: Gardens Point campus

Course Duration: 2 years full-time plus 2 years part-time, 6 years part-time

Total Credit Points: 287

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Gary Thomas

Special Course Requirements

A student registered in the part-time study program must be employed full-time by an approved building organisation or other approved body for three of the final four years of the course.

A student registered in the full-time study program must be similarly employed during the final two years part-time segment of the course.

Part-time study generally involves 11 to 12 hours per week and comprises a half-day release from employment with the remaining time spread over two or three nights between 5pm and 9.30pm.

For the first three years of the part-time course, a whole day release from employment is required.

Units are offered only once each year. This means that full-time students are required to attend part of their program in the evening.

Full-Time/Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BNB001	Learning at University	2	1.5
CNB103	Material Science 1	4	2
CNB145	Structures 1	4	2
CNB151	Construction 1	12	6
CNB342	Law 2 - Principles & Property	3	1.5
COB163	Professional Writing	6	1.5
MAB297	Mathematics for Construction	4	2
PSB904	Surveying & Measuring	4	2
SSB908	Behavioural Science	6	3
Year 1, Semester 2			
CNB104	Material Science 2	4	2
CNB131	Measurement of Construction 1A	6	3
CNB146	Structures 2	4	2
CNB154	Construction 2	14	7
CNB343	Economics of the Construction Industry	4	2
CNB347	Hygiene & Sanitation	4	2
ISB180	Computer Applications	4	2
PSB905	Project Survey	4	2
Year 2, Semester 1			
CNB013	Building Services 1 - HVAC	4	2
CNB245	Measurement of Construction 1B	6	3
CNB247	Material Science 3	4	2
CNB253	Construction 3	10	5

* See course requirements and notes relating to undergraduate courses.

CNB259	Structures 3	4	2
CNB403	Building Management 1	4	2
CNB440/1	Law 3 - Building Contracts	3	1
CNB442/1	Valuation & Dilapidations	4	2
CNB443	Building Services 3	5	2.5
CNB601	Formwork Design & Construction	4	2

Year 2, Semester 2

CNB014	Building Services 2 - Electrical	4	2
CNB243	Law 1 - Building Acts & Regulations	5	2
CNB246	Measurement of Construction 2B	8	4
CNB254	Construction 4	12	6
CNB404	Building Management 2	4	2
CNB405	Project Equipment & Safety	4	2
CNB440/2	Law 3 - Building Contracts	3	1
CNB442/2	Valuation & Dilapidations	2	1
CNB446	Estimating 1	5	2.5

Year 3, Semester 1

CNB341	Building & Civil Engineering Construction	4	2
CNB444	Mechanical & Electrical Estimating OR Elective Unit	4	2
CNB501	Building Management 3	4	2
CNB527	PM2 - Quantitative Techniques	3	1.5
CNB540	Estimating 2	5	2.5
CNB545	PM3 - Construction Planning Techniques 1	7	3.5

Year 3, Semester 2

CNB301	PM1 - Advanced Construction Methods	4	2
CNB502	Building Management 4	4	2
CNB543	Law 4 - Torts & Arbitrations	3	1.5
CNB548	PM4 - Construction Planning Techniques 2	8	4
CNB550	PM5 - Project Cost Control	6	3

Year 4, Semester 1

CEB701	Civil Engineering Quantities 1 OR Elective Unit	4	2
CNB603	Building Management 5	4	2
CNB623	PM6 - Building Development Techniques 1	4	2
CNB642	Applied Computer Techniques	6	3
CNB656/1	Building Research	8	4

Year 4, Semester 2

CNB401	Building Economics & Cost Planning	4	2
CNB606	PM8 - Land Development Studies	4	2
CNB624	PM7 - Building Development Techniques 2	4	2
CNB643	Law 5 - Commercial Law OR Elective Unit	3	1.5
CNB656/2	Building Research	10	5

Part-Time Course Structure

Year 1, Semester 1

BNB001	Learning at University	2	1.5
CNB103	Material Science 1	4	2
CNB145	Structures 1	4	2
CNB151	Construction 1	12	6
MAB297	Mathematics for Construction	4	2

Year 1, Semester 2

CNB104	Material Science 2	4	2
CNB146	Structures 2	4	2
CNB154	Construction 2	14	7
COB163	Professional Writing	6	1.5

Year 2, Semester 1

CNB005	Measurement of Construction 1	6	3
CNB247	Material Science 3	4	2
CNB253	Construction 3	10	5
CNB259	Structures 3	4	2
ISB180	Computer Applications	4	2

Year 2, Semester 2

CNB006	Measurement of Construction 2	6	3
CNB243	Law 1 - Building Acts & Regulations	5	2
CNB254	Construction 4	12	6

Year 3, Semester 1

CNB009	Measurement of Construction 3	4	2
CNB013	Building Services 1 - HVAC	4	2
CNB341	Building & Civil Engineering Construction	4	2
CNB342	Law 2 - Principles & Property	3	1.5
PSB904	Surveying & Measuring	4	2
SSB908	Behavioural Science	6	3

Year 3, Semester 2

CNB010	Measurement of Construction 4	4	2
CNB014	Building Services 2 - Electrical	4	2
CNB347	Hygiene & Sanitation	4	2
CNB405	Project Equipment & Safety	4	2
PSB905	Project Survey	4	2

Year 4, Semester 1

CNB403	Building Management 1	4	2
CNB440/1	Law 3 - Building Contracts	3	1
CNB442/1	Valuation & Dilapidations	2	1
CNB443	Building Services 3	5	2.5
CNB444	Mechanical & Electrical Estimating	4	2
	OR		
	Elective Unit	4	
CNB601	Formwork Design & Construction	4	2

Year 4, Semester 2

CNB301	PM1 - Advanced Construction Methods	4	2
CNB343	Economics of the Construction Industry	4	2
	OR		
	Elective Unit	4	
CNB404	Building Management 2	4	2
CNB440/2	Law 3 - Building Contracts	3	1
CNB442/2	Valuation & Dilapidations	2	1
CNB446	Estimating 1	5	2.5

Year 5, Semester 1

CEB701	Civil Engineering Quantities 1	4	2
	OR		
	Elective Unit	4	
CNB501	Building Management 3	4	2
CNB527	PM2 - Quantitative Techniques	3	1.5
CNB540	Estimating 2	5	2.5
CNB545	PM3 - Construction Planning Techniques 1	7	3.5

Year 5, Semester 2

CNB401	Building Economics & Cost Planning	4	2
CNB502	Building Management 4	4	2
CNB543	Law 4 - Torts & Arbitrations	3	1.5
CNB548	PM4 - Construction Planning Techniques 2	8	4
CNB550	PM5 - Project Cost Control	6	3

Year 6, Semester 1

CNB603	Building Management 5	4	2
CNB623	PM6 - Building Development Techniques 1	4	2
CNB642	Applied Computer Techniques	6	3
CNB656/1	Building Research	8	4

Year 6, Semester 2

CNB606	PM8 - Land Development Studies	4	2
CNB624	PM7 - Building Development Techniques 2	4	2
CNB643	Law 5 - Commercial Law	3	1.5
	OR		
	Elective Unit	3	
CNB656/2	Building Research	10	5

Elective Units

Elective units may be taken from any other course offered by the University in consultation with the course coordinator.

■ Bachelor of Applied Science (Property Economics) (CN32)*

Location: Gardens Point campus

Course Duration: 3 years full-time, 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 50

Course Coordinator: Ms Lynne Armitage

Professional Recognition

Completion of the undergraduate course together with the related experience requirements make a graduate eligible for membership of the Australian Institute of Valuers and Land Economists, registration by the Valuers Registration Board of Queensland, and licensing as a real estate agent.

Special Course Requirements

A student registered in the part-time study program must be employed full-time in an approved organisation for three of the final four years of the course.

Part-time study generally involves 11 hours per week and comprises a half-day release from employment with the remaining time spread over two or three nights between 5pm and 9.30pm.

* See course requirements and notes relating to undergraduate courses.

Full-Time Course Structure**Credit
Points****Contact
Hrs/Wk****Year 1, Semester 1**

BNB001	Learning at University	2	1.5
CNB161	Building Studies 1	14	5.5
CNB263	Valuation 1	7	3
CNB342	Law 2 - Principles & Property	3	1.5
COB163	Professional Writing	6	1.5
MAB298	Mathematics & Statistics	4	2
PSB060	Introduction to Economics	2	1
PSB902	Urban Planning 1	4	2
SSB908	Behavioural Science	6	3

Year 1, Semester 2

CNB162	Building Studies 2	9	3.5
CNB166	Urban Economics	4	2
CNB268	Valuation 2	8	3
CNB362	Property Agency	8	3
CNB565	Land Management	8	3
CNB643	Law 5 - Commercial Law	3	1.5
ISB180	Computer Applications	4	2
PSB903	Urban Planning 2	4	2

Year 2, Semester 1

CNB261	Building Studies 3	9	3
CNB363	Valuation 3	9	3
CNB367	Real Estate Accounting 1	9	3
CNB471	Property Practice Law	8	2.5
CNB665	Property Management 1	9	3
PSB904	Surveying & Measuring	4	2

Year 2, Semester 2

CNB262	Building Studies 4	8	3
CNB364	Valuation 4	8	3
CNB368	Real Estate Accounting 2	8	3
CNB567	Real Estate Market Analysis	4	2
CNB626	Land Development Studies	4	2
CNB666	Property Management 2	8	3
CNB667	Applied Computer Techniques	8	3

Year 3, Semester 1

CNB464	Valuation 5 - Rural	8	3
CNB465	Property Investment Analysis 1	8	3
CNB561	Property Maintenance	8	3
CNB563	Statutory Valuation	8	3
CNB568	Real Estate Practice	5	2.5
CNB661	Research Dissertation 1	8	4
CNB663	Property Development 1	5	2

Year 3, Semester 2

CNB466	Property Investment Analysis 2	8	3
CNB470	Valuation 6 - Rural	8	3
CNB472	Property Taxation Issues	8	2
CNB564	Valuation 7	8	3
CNB662	Research Dissertation 2	8	4
CNB664	Property Development 2	6	2

Part-Time Course Structure**Year 1, Semester 1**

BNB001	Learning at University	2	1.5
CNB161	Building Studies 1	14	5.5

MAB298	Mathematics & Statistics	4	2
PSB060	Introduction to Economics	2	1
Year 1, Semester 2			
CNB162	Building Studies 2	9	3.5
CNB166	Urban Economics	4	2
CNB565	Land Management	8	3
ISB180	Computer Applications	4	2
Year 2, Semester 1			
CNB261	Building Studies 3	9	3
CNB263	Valuation 1	7	3
CNB342	Law 2 - Principles & Property	3	1.5
COB163	Professional Writing	6	1.5
Year 2, Semester 2			
CNB262	Building Studies 4	8	3
CNB268	Valuation 2	8	3
CNB362	Property Agency	8	3
CNB626	Land Development Studies	4	2
Year 3, Semester 1			
CNB363	Valuation 3	9	3
CNB367	Real Estate Accounting 1	9	3
PSB902	Urban Planning 1	4	2
Year 3, Semester 2			
CNB364	Valuation 4	8	3
CNB368	Real Estate Accounting 2	8	3
CNB643	Law 5 - Commercial Law	3	1.5
PSB903	Urban Planning 2	4	2
Year 4, Semester 1			
CNB464	Valuation 5 - Rural	8	3
CNB465	Property Investment Analysis 1	8	3
SSB908	Behavioural Science	6	3
PSB904	Surveying & Measuring	4	2
Year 4, Semester 2			
CNB466	Property Investment Analysis 2	8	3
CNB470	Valuation 6 - Rural	8	3
CNB472	Property Taxation Issues	8	2
Year 5, Semester 1			
CNB561	Property Maintenance	8	3
CNB563	Statutory Valuation	8	3
CNB568	Real Estate Practice	5	2.5
Year 5, Semester 2			
CNB564	Valuation 7	8	3
CNB567	Real Estate Market Analysis	4	2
CNB667	Applied Computer Techniques	8	3
Year 6, Semester 1			
CNB471	Property Practice Law	8	2.5
CNB661	Research Dissertation 1	8	4
CNB663	Property Development 1	5	2
CNB665	Property Management 1	9	3
Year 6, Semester 2			
CNB662	Research Dissertation 2	8	4
CNB664	Property Development 2	6	2
CNB666	Property Management 2	8	3

■ Bachelor of Applied Science (Quantity Surveying) (CN33)*

Location: Gardens Point campus

Course Duration: 2 years full-time plus 2 years part-time, 6 years part-time

Total Credit Points: 286

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Don Campbell-Stewart

Professional Recognition

Completion of the Bachelor of Applied Science (Quantity Surveying) together with the related experience requirements enables a graduate to be eligible for membership of the Australian Institute of Quantity Surveying.

Special Course Requirements

A student registered in the part-time study program must be employed in a building or quantity surveying office under the direction of a qualified quantity surveyor for three of the final four years of the course.

A student registered in the full-time study program must be similarly employed during the final two year part-time segment of the course.

Part-time study generally involves 11-12 hours per week and comprises a half-day release from employment with the remaining time spread over two or three nights between 5pm and 9.30pm.

For the first three years of the part-time course, a whole day release from employment is required.

Units are offered only once each year. This means that full-time students are required to attend part of their program in the evening.

Full-Time/Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BNB001	Learning at University	2	1.5
CNB103	Material Science 1	4	2
CNB145	Structures 1	4	2
CNB151	Construction 1	12	6
CNB342	Law 2 - Principles & Property	3	1.5
CNB442/1	Valuation & Dilapidations	4	2
CNB501	Building Management 3	4	2
COB163	Professional Writing	6	1.5
MAB297	Mathematics for Construction	4	2
PSB904	Surveying & Measuring	4	2
Year 1, Semester 2			
CNB104	Material Science 2	4	2
CNB131	Measurement of Construction 1A	6	3
CNB146	Structures 2	4	2
CNB154	Construction 2	14	7
CNB343	Economics of the Construction Industry	4	2
CNB347	Hygiene & Sanitation	4	2
CNB442/2	Valuation & Dilapidations	2	1
ISB180	Computer Applications	4	2

* See course requirements and notes relating to undergraduate courses.

Year 2, Semester 1

CNB013	Building Services 1 - HVAC	4	2
CNB245	Measurement of Construction 1B	6	3
CNB247	Material Science 3	4	2
CNB253	Construction 3	10	5
CNB259	Structures 3	4	2
CNB403	Building Management 1	4	2
CNB440/1	Law 3 - Building Contracts	3	1
CNB443	Building Services 3	5	2.5
CNB527	PM2 - Quantitative Techniques	3	1.5

Year 2, Semester 2

CNB014	Building Services 2 - Electrical	4	2
CNB243	Law 1 - Building Acts & Regulations	5	2
CNB246	Measurement of Construction 2B	8	4
CNB254	Construction 4	12	6
CNB404	Building Management 2	4	2
CNB440/2	Law 3 - Building Contracts	3	1
CNB446	Estimating 1	5	2.5
CNB543	Law 4 - Torts & Arbitrations	3	1.5
CNB643	Law 5 - Commercial Law	3	1.5
OR			
	Elective Unit	3	

Year 3, Semester 1

CNB341	Building & Civil Engineering Construction	4	2
CNB444	Mechanical & Electrical Estimating	4	2
OR			
	Elective Unit	4	
CNB451	Computer Software Applications 1	4	2
CNB461	Measurement of Construction 5	3	1.5
CNB540	Estimating 2	5	2.5
CNB545	PM3 - Construction Planning Techniques 1	7	3.5

Year 3, Semester 2

CNB301	PM1 - Advanced Construction Methods	4	2
CNB462	Measurement of Construction 6	3	1.5
CNB502	Building Management 4	4	2
CNB520	Specifications	3	1.5
CNB524	Measurement of Construction 7	4	2
CNB526	Post Contract Services 1	5	2.5
CNB552	Office Management	2	1

Year 4, Semester 1

CNB603	Building Management 5	4	2
CEB701	Civil Engineering Quantities 1	4	2
CNB623	PM6 - Building Development Techniques 1	4	2
CNB647	Cost Planning & Cost Control 1	4	2
CNB653	Post Contract Services 2	5	2.5
CNB656/1	Building Research	8	4

Year 4, Semester 2

CEB901	Civil Engineering Quantities 2	4	2
CNB452	Computer Software Applications 2	4	2
CNB624	PM7 - Building Development Techniques 2	4	2
CNB648	Cost Planning & Cost Control 2	4	2
CNB656/2	Building Research	10	5

Part-Time Course Structure

Year 1, Semester 1

BNB001	Learning at University	2	1.5
CNB103	Material Science 1	4	2
CNB145	Structures 1	4	2
CNB151	Construction 1	12	6
MAB297	Mathematics for Construction	4	2

Year 1, Semester 2

CNB104	Material Science 2	4	2
CNB146	Structures 2	4	2
CNB154	Construction 2	14	7
COB163	Professional Writing	6	1.5

Year 2, Semester 1

CNB005	Measurement of Construction 1	6	3
CNB247	Material Science 3	4	2
CNB253	Construction 3	10	5
CNB259	Structures 3	4	2
ISB180	Computer Applications	4	2

Year 2, Semester 2

CNB006	Measurement of Construction 2	6	3
CNB243	Law 1 - Building Acts & Regulations	5	2
CNB254	Construction 4	12	6

Year 3, Semester 1

CNB009	Measurement of Construction 3	4	2
CNB013	Building Services 1 - HVAC	4	2
CNB341	Building & Civil Engineering Construction	4	2
CNB342	Law 2 - Principles & Property	3	1.5
CNB442/1	Valuation & Dilapidations	4	2
PSB904	Surveying & Measuring	4	2

Year 3, Semester 2

CNB010	Measurement of Construction 4	4	2
CNB014	Building Services 2 - Electrical	4	2
CNB343	Economics of the Construction Industry	4	2
	OR		
	Elective Unit	4	
CNB347	Hygiene & Sanitation	4	2
CNB442/2	Valuation & Dilapidations	2	1
CNB520	Specification	3	1.5

Year 4, Semester 1

CEB701	Civil Engineering Quantities 1	4	2
CNB403	Building Management 1	4	2
CNB440/1	Law 3 - Building Contracts	3	1
CNB443	Building Services 3	5	2.5
CNB451	Computer Software Applications 1	4	2
CNB461	Measurement of Construction 5	3	1.5

Year 4, Semester 2

CEB901	Civil Engineering Quantities 2	4	2
CNB301	PM1 - Advanced Construction Methods	4	2
CNB404	Building Management 2	4	2
CNB440/2	Law 3 - Building Contracts	3	1
CNB446	Estimating 1	5	2.5
CNB462	Measurement of Construction 6	3	1.5

Year 5, Semester 1

CNB444	Mechanical & Electrical Estimating	4	2
	OR		
	Elective Unit	4	
CNB501	Building Management 3	4	2
CNB527	PM2 - Quantitative Techniques	3	1.5
CNB540	Estimating 2	5	2.5
CNB545	PM3 - Construction Planning Techniques 1	7	3.5

Year 5, Semester 2

CNB502	Building Management 4	4	2
CNB524	Measurement of Construction 7	4	2
CNB526	Post Contract Services 1	5	2.5
CNB543	Law 4 - Torts & Arbitrations	3	1.5
CNB552	Office Management	2	1
CNB643	Law 5 - Commercial Law	3	1.5
	OR		
	Elective Unit	3	

Year 6, Semester 1

CNB603	Building Management 5	4	2
CNB623	PM6 - Building Development Techniques 1	4	2
CNB647	Cost Planning & Cost Control 1	4	2
CNB653	Post Contract Services 2	5	2.5
CNB656/1	Building Research	8	4

Year 6, Semester 2

CNB452	Computer Software Applications 2	4	2
CNB624	PM7 - Building Development Techniques 2	4	2
CNB648	Cost Planning & Cost Control 2	4	2
CNB656/2	Building Research	10	5

Elective Units

Elective units may be taken from any other course offered by the University in consultation with the course coordinator.

■ Bachelor of Applied Science (Surveying) (SV34)*

Course Discontinued: This course has been replaced by the Bachelor of Surveying (PS47). There will be no intake into the Bachelor of Applied Science (Surveying) (SV34) in 1994. Years 2 and 3 are offered to continuing students only.

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 290

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Jim Glasscock

Professional Recognition

This degree meets the educational requirements for registration and licensing by the Surveyors Board of Queensland and also satisfies the academic requirements for admission as a member of both the Institution of Surveyors (Australia) and the Australian Institute of Cartographers.

* See course requirements and notes relating to undergraduate courses.

Special Course Requirements

Students must obtain at least 90 days of industrial employment/practice in a surveying environment approved by the course coordinator.

Students must, not later than the fourth week of semester immediately following each period of industrial employment/practice, submit to the course coordinator a report or diary in the required format, describing the work carried out during the period of employment/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the School Office, Faculty Industrial Employment Officer in Room 602 O Block, Gardens Point campus and also from the Faculty Office. Should employment exceed the minimum required, it is strongly recommended that these details also be recorded in the report or diaries and certified by the employer as a record of experience which may be used when seeking registration or licensing by the Surveyors Board.

Students should not formally enrol in industrial employment/practice.

Students may be required to attend camps off-campus and/or practical sessions in the Moreton region.

Full-Time Course Structure

**Credit
Points**

**Contact
Hrs/Wk**

At the end of Year 1 students must select either the Cartography or Surveying Major and must obtain vacation practice in that area.

SURVEYING MAJOR

Year 2, Semester 1

MAB795	Survey Mathematics 3	6	3
PHB170	Physics for Surveyors	12	6
SVB311	Data Presentation 3	5	3
SVB331	Observations & Adjustments 1	4	2
SVB393	Land Surveying 3	10	5
SVB473	Land Information Systems 1	5	3
SVB573	Land Administration 3	6	3

Year 2, Semester 2

CEB364	Engineering Science 2	6	3
SVB343	Photogrammetry 1	6	3
SVB412	Cartographic Practice	5	3
SVB430	Land Surveying 4	9	4
SVB431	Observations & Adjustments 2	4	2
SVB442	Geodetic Computations	9	4
SVB451	Land Studies B	5	3
SVB574	Land Administration 4	4	2

Year 3, Semester 1

PSB315	Land Administration 1	6	3
SVB443	Photogrammetry 2	11	6
SVB535	Land Surveying 5	5	3
SVB551	Land Valuation	6	3
SVB561	Land Development Practice 1	10	6
SVB563	Land Information Systems 2	4	2
SVB571	Cadastre	4	2
SVB683/1	Project	4	1

Year 3, Semester 2

SVB636	Land Surveying 6	6	3
SVB639	Observations & Adjustments 3	4	2
SVB640	Geodesy	6	3

SVB664	Land Development Practice 2	10	6
SVB680	Professional Practice	6	3
SVB682	Seminar 2	2	1
SVB683/2	Project	4	1
	Two Elective Units	10	6

CARTOGRAPHY MAJOR

Year 2, Semester 1

MAB795	Survey Mathematics 3	6	3
PHB170	Physics for Surveyors	12	6
SVB311	Data Presentation 3	5	3
SVB331	Observations & Adjustments 1	4	2
SVB473	Land Information Systems 1	5	3
SVB573	Land Administration 3	6	3
SVB911	Graphic Design 1	10	5

Year 2, Semester 2

SVB343	Photogrammetry 1	6	3
SVB412	Cartographic Practice	5	3
SVB431	Observations & Adjustments 2	4	2
SVB442	Geodetic Computations	9	4
SVB451	Land Studies B	5	3
SVB574	Land Administration 4	4	2
SVB912	Graphic Design 2	9	4

Year 3, Semester 1

PSB315	Land Administration 1	6	3
SVB443	Photogrammetry 2	11	6
SVB561	Land Development Practice 1	10	6
SVB563	Land Information Systems 2	4	2
SVB571	Cadastral	4	2
SVB685/1	Project	8	4

Year 3, Semester 2

SVB639	Observations & Adjustments 3	4	2
SVB664	Land Development Practice 2	10	6
SVB680	Professional Practice	6	3
SVB682	Seminar 2	2	1
SVB685/2	Project	8	4
	Two Elective Units	10	6

Elective Units

CEB504	Engineering Science 3	5	3
PSB347	Topics in Engineering Surveying	5	3
SVB643	Photogrammetry 3	5	3
SVB645	Remote Sensing	5	3
SVB670	Land Administration 5	5	3
SVB684	Map Production Planning	5	3
SVB694	Geodesy 2	5	3

■ Bachelor of Architecture (AR48)*

Location: Gardens Point campus

Course Duration: 6 years part-time

Total Credit Points: 384

Standard Credit Points/Part-Time Semester: 32

Course Coordinator: Mr Dan Nutter

* See course requirements and notes relating to undergraduate courses.

Professional Recognition

On completion of the course and one years' postgraduate practical experience, graduates are eligible to apply for associate membership of the Royal Australian Institute of Architects and are eligible to apply to sit for the registration examination conducted by the Board of Architects of Queensland.

Special Course Requirements

A Bachelor of Architecture student must be engaged in approved employment for at least 48 recognised weeks within the first 3 years (Approved Employment A) and for at least 72 recognised weeks within the second 3 years (Approved Employment B).

'Approved employment' is defined as working under the direction of an architect who is registered within the place of practice where the experience is obtained. Experience in related areas not exceeding 12 weeks in Approved Employment A and 18 weeks in Approved Employment B may be granted. Periods of work experience of less than 8 recognised weeks continuous duration cannot be accredited.

A 'recognised week' is a week of 5 days employment. During semester, when students normally work for 4 days per week, the 18 week semester (14 weeks in class and 4 weeks in examination) translates to 14.4 'recognised weeks'. This figure is rounded off to 14 weeks to take account of public holidays. Students in full employment would normally accumulate 40 recognised weeks in a calendar year.

Approved Employment A is normally a pre-requisite for Approved Employment B.

Students may accumulate up to 24 recognised weeks in Approved Employment A and 36 recognised weeks in Approved Employment B during periods of approved leave of absence from formal classes.

Students must enrol in Approved Employment A in the second semester of third year and then cannot proceed to fourth year until this unit of employment is satisfied, unless a special dispensation is granted. Students must enrol in Approved Employment B in the second semester of sixth year and will not be eligible to graduate until this unit of employment is satisfied.

Students who are admitted directly into the course after the end of the third year must satisfy Approved Employment B only.

Update reports on progress are required from students at the end of each semester and examination results may not be issued until they are submitted.

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ARB140	Introductory Design 1	16	8
ARB191	The Human Environment 1	4	2
ARB195	Technology 1	4	2.5
ARB197	History of Architecture & Art 1	2	1
COB163	Professional Writing	6	1.5
Year 1, Semester 2			
ARB192	The Human Environment 2	4	2
ARB196	Technology 2	6	3
ARB198	History of Architecture & Art 2	2	1
ARB248	Introductory Design 2	18	9

Year 2, Semester 1

ARB289	Design Science 1	2	1
ARB291	The Human Environment 3	4	2
ARB295	Building Construction 1	4	2
ARB299	Introduction to Computing 1	2	1
ARB340	Architectural Design 1	18	7
CEB359	Principles of Structures 1	2	1

Year 2, Semester 2

ARB288	Design Science 2	2	1
ARB290	Introduction to Computing 2	2	1
ARB292	The Human Environment 4	4	2
ARB296	Building Construction 2	4	2
ARB440	Architectural Design 2	16	6
CEB459	Principles of Structures 2	4	2

Year 3, Semester 1

ARB389	Design Science 3	4	2
ARB391	Building Services 1	4	1.5
ARB395	Building Construction 3	3	1.5
ARB540	Architectural Design 3	18	6
CEB559	Principles of Structures 3	3	2

Year 3, Semester 2

ARB388	Design Science 4	2	1
ARB392	Building Services 2	3	1.5
ARB396	Building Construction 4	3	1.5
ARB640	Architectural Design 4	18	6
ARB646	Law of the Built Environment	4	2
CEB659	Principles of Structures 4	4	2
ARB795	Approved Employment A		

Year 4, Semester 1

ARB480/1	Design 7	16	5
ARB481/1	Professional Studies 1	6	3
ARB491/1	History of Architecture & Art 3	2	1
ARB497/1	Advanced Technology	4	2
ARB590	Elective 1A	4	2

Year 4, Semester 2

ARB480/2	Design 7	16	5
ARB481/2	Professional Studies 1	6	3
ARB491/2	History of Architecture & Art 3	2	1
ARB497/2	Advanced Technology	4	2
ARB598	Elective 1B	4	2

Year 5, Semester 1

ARB580/1	Design 8	18	6
ARB591/1	History of Architecture & Art 4	2	1
ARB595/1	Professional Studies 2	8	4
ARB663	Research Methods	4	2

Year 5, Semester 2

ARB580/2	Design 8	18	6
ARB591/2	History of Architecture & Art 4	2	1
ARB595/2	Professional Studies 2	8	4
ARB664	Architectural Research 1	4	2

Year 6, Semester 1

ARB647	Architectural Research 2	24	6
ARB681/1	Professional Studies 3	8	2

Year 6, Semester 2

ARB681/2	Professional Studies 3	8	2
ARB690	Architectural Project	24	6
ARB796	Approved Employment B		

■ Bachelor of Architecture (AR41)

Course Discontinued: No further intakes. Years 2 to 6 are offered to continuing students only.

Location: Gardens Point campus

Course Duration: 6 years part-time

Total Credit Points: 288

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Mr Dan Nutter

Professional Recognition

On completion of the course and one years postgraduate practical experience graduates are eligible for associate membership of the Royal Australian Institute of Architects and are eligible to sit for the registration examination conducted by the Board of Architects of Queensland.

Special Course Requirements

- (i) Except as provided in (ii) below, a student must be engaged in approved employment for 11 months per year for four of the six years of the course, including one of the two final years. Approved employment is defined as working under the direction of an architect or, for a period not exceeding six months, gaining experience in a related field approved by the Head of School. Students should work under the same employer for at least six months. Students **must enrol** in approved employment units in the semester (or summer school period) in which they expect to finalise the specific approved employment unit involved, so that they can be credited with a result for the unit. All necessary documentation must be forwarded to the course coordinator in time for the unit to be finalised by the end of the semester in which the student is enrolled.
- (ii) A student who is admitted with advanced standing and who is granted exemption from all units in the first three years of the course may be granted exemption from the unit ARB791 Approved Employment 1.

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
ARB289	Design Science 1	2	1
ARB291	The Human Environment 3	4	2
ARB293	Design 3	10	5
ARB295	Building Construction 1	4	2
ARB299	Introduction to Computing 1	2	1
CEB359	Principles of Structures 1	2	1

Year 2, Semester 2

ARB288	Design Science 2	2	1
ARB290	Introduction to Computing 2	2	1
ARB292	The Human Environment 4	4	2
ARB294	Design 4	8	4
ARB296	Building Construction 2	4	2
CEB459	Principles of Structures 2	4	2

Year 3, Semester 1

ARB389	Design Science 3	4	2
ARB391	Building Services 1	4	1.5
ARB393	Design 5	8	4
ARB395	Building Construction 3	3	1.5
ARB544	Landscape Architecture in the Built Environment	2	1
CEB559	Principles of Structures 3	3	2

Year 3, Semester 2

ARB388	Design Science 4	2	1
ARB392	Building Services 2	3	1.5
ARB394	Design 6	8	4
ARB396	Building Construction 4	3	1.5
ARB646	Law of the Built Environment	4	2
CEB659	Principles of Structures 4	4	2

Year 4, Semester 1

ARB491/1	History of Architecture & Art 3	2	1
ARB493/1	Design 7	10	5
ARB495/1	Professional Studies 1	8	4
ARB497/1	Advanced Technology	4	2

Year 4, Semester 2

ARB491/2	History of Architecture & Art 3	2	1
ARB493/2	Design 7	10	5
ARB495/2	Professional Studies 1	8	4
ARB497/2	Advanced Technology	4	2

Year 5, Semester 1

ARB591/1	History of Architecture & Art 4	2	1
ARB593/1	Design 8	10	5
ARB595/1	Professional Studies 2	8	4
ARB590	Elective 1A	4	2

Year 5, Semester 2

ARB591/2	History of Architecture & Art 4	2	1
ARB593/2	Design 8	10	5
ARB595/2	Professional Studies 2	8	4
ARB598	Elective 1B	4	2

Year 6, Semester 1

ARB693	Design 9	16	5
ARB695/1	Professional Studies 3	4	2
ARB697/1	Elective 2	4	2

Year 6, Semester 2

ARB695/2	Professional Studies 3	4	2
ARB697/2	Elective 2	20	5

Approved Employment Units

ARB791	Approved Employment 1
ARB792	Approved Employment 2
ARB793	Approved Employment 3
ARB794	Approved Employment 4

■ Bachelor of Built Environment (BN30)*

With majors in: Architectural Studies, Industrial Design, Interior Design, Landscape Architecture, and Urban and Regional Planning

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Professor Bill Lim

Majors Coordinators:

Architectural Studies – Mr Dan Nutter

Industrial Design – Associate Professor Vesna Popovic

Interior Design – Mr Peter Hedley

Landscape Architecture – Ms Delwynn Poulton

Urban and Regional Planning – Ms Janelle Brown

Professional Recognition

ARCHITECTURAL STUDIES MAJOR

The Bachelor of Built Environment (Architectural Studies) must be completed before students are eligible to apply for entry to the fourth year of the part-time Bachelor of Architecture course.

Upon completion of the final three years of the Bachelor of Architecture course, during which time students have been employed in an approved professional practice for a minimum of 72 recognised weeks, the academic requirements for membership of professional bodies are met.

INDUSTRIAL DESIGN MAJOR

Successful completion of the Bachelor of Built Environment (Industrial Design) satisfies the entry requirement for the Graduate Diploma in Industrial Design, graduates of which are eligible for Associate Membership of the Design Institute of Australia.

INTERIOR DESIGN MAJOR

Successful completion of the Bachelor of Built Environment (Interior Design) satisfies the requirements for entry into the Graduate Diploma in Interior Design, which is presently undergoing accreditation by the Design Institute of Australia.

LANDSCAPE ARCHITECTURE MAJOR

Successful performance in the Bachelor of Built Environment (Landscape Architecture) enables students to gain entry to the Graduate Diploma course. The Graduate Diploma in Landscape Architecture is the only course in Landscape Architecture in Queensland, and one of the courses in Landscape Architecture accredited by the Australian Institute of Landscape Architects.

URBAN AND REGIONAL PLANNING MAJOR

Successful completion of the Bachelor of Built Environment (Urban and Regional Planning) enables students to gain entry to the Graduate Diploma in Urban and Regional Planning, which is fully accredited by the Royal Australian Planning Institute.

* See course requirements and notes relating to undergraduate courses.

Full-Time Course Structure**Credit
Points****Contact
Hrs/Wk****ARCHITECTURAL STUDIES MAJOR****Year 1, Semester 1**

ARB140	Introductory Design 1	16	8
ARB141	The Human Environment 1	4	2
ARB147	History of the Built Environment 1	6	3
ARB199	Technology 1	8	4
BNB001	Learning at University	2	1.5
COB163	Professional Writing	6	1.5
MAB181	Applied Mathematics for Designers 1	6	3

Year 1, Semester 2

ARB241	History of the Built Environment 2	6	3
ARB242	Technology 2	14	5
ARB248	Introductory Design 2	18	9
ARB249	The Human Environment 2	6	2
PSB054	Environmental Science	4	2

Year 2, Semester 1

ARB289	Design Science 1	2	1
ARB291	The Human Environment 3	4	2
ARB299	Introduction to Computing 1	2	1
ARB340	Architectural Design 1	18	7
ARB341	Building Construction 1	16	6
ARB343	Visual Communication for Architects 1	4	2
CEB359	Principles of Structures 1	2	1

Year 2, Semester 2

ARB288	Design Science 2	2	1
ARB290	Introduction to Computing 2	2	1
ARB292	The Human Environment 4	4	2
ARB440	Architectural Design 2	16	6
ARB441	Building Construction 2	16	6
ARB443	Visual Communication for Architects 2	4	2
CEB459	Principles of Structures 2	4	2

Year 3, Semester 1

ARB389	Design Science 3	4	2
ARB391	Building Services 1	4	1.5
ARB540	Architectural Design 3	18	6
ARB541	Building Construction 3	17	6.5
ARB544	Landscape Architecture in the Built Environment	2	1
CEB559	Principles of Structures 3	3	2

Year 3, Semester 2

ARB388	Design Science 4	2	1
ARB392	Building Services 2	3	1.5
ARB640	Architectural Design 4	18	6
ARB641	Building Construction 4	17	6.5
ARB646	Law of the Built Environment	4	2
CEB659	Principles of Structures 4	4	2

INDUSTRIAL DESIGN MAJOR**Year 1, Semester 1**

ARB140	Introductory Design 1	16	8
ARB141	The Human Environment 1	4	2
ARB147	History of the Built Environment 1	6	3
ARB151	Design Technology & Society	2	1
BNB001	Learning at University	2	1.5
COB163	Professional Writing	6	1.5
MAB181	Applied Mathematics for Designers 1	6	3
PHB144	Applied Science for Designers 1	6	3

Year 1, Semester 2

ARB241	History of the Built Environment 2	6	3
ARB248	Introductory Design 2	18	9
ARB249	The Human Environment 2	6	2
ARB251	Ergonomics for Industrial Designers 1	4	2
CHB292	Applied Science for Designers 2	4	2
MAB196	Quantitative Methods 2	6	3
PSB054	Environmental Science	4	2

Year 2, Semester 1

ARB291	The Human Environment 3	4	2
ARB350	Industrial Design 1	18	8
ARB351	Ergonomics for Industrial Designers 2	4	2
ARB352	Visual Communication for Industrial Designers 1	4	2
ARB353	Manufacturing Technology 1	14	6
ARB354	Computer-aided Industrial Design 1	4	2

Year 2, Semester 2

ARB292	The Human Environment 4	4	2
ARB444	Environmental Impact	2	1
ARB450	Industrial Design 2	20	6
ARB452	Visual Communication for Industrial Designers 2	4	2
ARB453	Manufacturing Technology 2	10	5
ARB454	Computer-aided Industrial Design 2	4	2
MEB010	Dynamics 1	4	2

Year 3, Semester 1

ARB550	Industrial Design 3	20	6
ARB552	Visual Communication for Industrial Designers 3	4	2
ARB553	Manufacturing Technology 3	8	3
ARB554	Computer-aided Industrial Design 3	4	2
ARB555	Economics of Industrial Production	4	2
ARB556	Product Analysis & Development	4	2
MEB012	Dynamics 2	4	2

Year 3, Semester 2

ARB646	Law of the Built Environment	4	2
ARB650	Industrial Design 4	20	6
ARB652	Visual Communication for Industrial Designers 4	4	2
ARB653	Manufacturing Technology 4	14	5
ARB654	Computer-aided Industrial Design 4	6	2

INTERIOR DESIGN MAJOR**Year 1, Semester 1**

ARB140	Introductory Design 1	16	8
ARB141	The Human Environment 1	4	2
ARB146	Introduction to Interior Technology 1	6	2
ARB147	History of the Built Environment 1	6	3
ARB161	Light & Colour Studies	8	3
BNB001	Learning at University	2	1.5
COB163	Professional Writing	6	1.5

Year 1, Semester 2

ARB241	History of the Built Environment 2	6	3
ARB246	Introduction to Interior Technology 2	14	5
ARB248	Introductory Design 2	18	9
ARB249	The Human Environment 2	6	2
PSB054	Environmental Science	4	2

Year 2, Semester 1

ARB291	The Human Environment 3	4	2
ARB360	Interior Design 1	18	7
ARB361	Interior Technology 1	18	6

ARB362	Furniture & Fittings 1	4	2
ARB363	Visual Communication for Interior Designers 1	4	2

Year 2, Semester 2

ARB292	The Human Environment 4	4	2
ARB444	Environmental Impact	2	1
ARB460	Interior Design 2	16	7
ARB461	Interior Technology 2	16	6
ARB462	Furniture & Fittings 2	6	2
ARB463	Visual Communication for Interior Designers 2	4	2

Year 3, Semester 1

ARB560	Interior Design 3	20	6
ARB561	Interior Technology 3	16	7
ARB562	Furniture & Fittings 3	8	2
ARB563	Visual Communication for Interior Designers 3	4	2

Year 3, Semester 2

ARB646	Law of the Built Environment	4	2
ARB660	Interior Design 4	18	6
ARB661	Interior Technology 4	14	6
ARB662	Furniture & Fittings 4	8	2
ARB663	Research Methods	4	2

LANDSCAPE ARCHITECTURE MAJOR

Year 1, Semester 1

BNB001	Learning at University	2	1.5
COB163	Professional Writing	6	1.5
MAB195	Quantitative Methods 1	6	3
PHB144	Applied Science for Designers 1	6	3
PSB010	Introductory Design 1	12	6
PSB016	History of the Built Environment 1	6	3
PSB050	The Human Environment 1	4	2
PSB070	Map & Air Photo Interpretation	2	1

Year 1, Semester 2

CHB292	Applied Science for Designers 2	4	2
MAB196	Quantitative Methods 2	6	3
PSB011	Introductory Design 2	20	10
PSB017	History of the Built Environment 2	8	3
PSB051	The Human Environment 2	6	2
PSB054	Environmental Science	4	2
PSB056	Applied Land Science for Designers	4	1

Year 2, Semester 1

PSB012	Planning & Landscape Design 1	21	9
PSB030	Introduction to the Professions	3	1
PSB040	Graphic Communication	6	3
PSB052	The Human Environment 3	6	3
PSB057	Landscape Ecology 1	8	4
PSB071	Site Measurement	4	1

Year 2, Semester 2

PSB013	Planning & Landscape Design 2	20	6
PSB053	The Human Environment 4	4	2
PSB058	Landscape Ecology 2	8	3
PSB059	Population & Urban Studies	6	2
PSB060	Introduction to Economics	2	1
PSB072	Design Science	4	2
PSB073	Computer Techniques	4	2

Year 3, Semester 1

PSB014	Planning & Landscape Design 3	20	6
PSB018	Land Use Generation	4	2
PSB041	Report Preparation	2	1
PSB230	Quantities & Costs	2	1
PSB244	Landscape Graphics	6	2
PSB074	Land Development	8	3
PSB275	Landscape Construction 1	6	3

Year 3, Semester 2

ARB646	Law of the Built Environment	4	2
PSB015	Planning & Landscape Design 4	20	6
PSB019	Planting Design	3	1
PSB020	Land Use Policies	4	2
PSB021	Conservation Theory	2	1
PSB032	Issues & Ethics	2	1
PSB061	Impacts & Assessment	5	2
PSB276	Landscape Construction 2	4	2
PSB280	Elective Unit (Landscape Architecture)	4	2

URBAN AND REGIONAL PLANNING MAJOR**Year 1, Semester 1**

BNB001	Learning at University	2	1.5
COB163	Professional Writing	6	1.5
MAB195	Quantitative Methods 1	6	3
PHB144	Applied Science for Designers 1	6	3
PSB010	Introductory Design 1	12	6
PSB016	History of the Built Environment 1	6	3
PSB050	The Human Environment 1	4	2
PSB070	Map & Air Photo Interpretation	2	1

Year 1, Semester 2

CHB292	Applied Science for Designers 2	4	2
MAB196	Quantitative Methods 2	6	3
PSB011	Introductory Design 2	20	10
PSB017	History of the Built Environment 2	8	3
PSB051	The Human Environment 2	6	2
PSB054	Environmental Science	4	2
PSB056	Applied Land Science for Designers	4	1

Year 2, Semester 1

PSB012	Planning & Landscape Design 1	21	9
PSB030	Introduction to the Professions	3	1
PSB040	Graphic Communication	6	3
PSB052	The Human Environment 3	6	3
PSB057	Landscape Ecology 1	8	4
PSB071	Site Measurement	4	1

Year 2, Semester 2

PSB013	Planning & Landscape Design 2	20	6
PSB053	The Human Environment 4	4	2
PSB058	Landscape Ecology 2	8	3
PSB059	Population & Urban Studies	6	2
PSB060	Introduction to Economics	2	1
PSB072	Design Science	4	2
PSB073	Computer Techniques	4	2

Year 3, Semester 1

PSB014	Planning & Landscape Design 3	20	6
PSB018	Land Use Generation	4	2
PSB041	Report Preparation	2	1
PSB062	Economics of Town Planning	5	2
PSB074	Land Development	8	3

PSB077	Transport Planning	6	2
PSB190	Elective Unit (Planning)	3	2

Year 3, Semester 2

ARB646	Law of the Built Environment	4	2
PSB015	Planning & Landscape Design 4	20	6
PSB020	Land Use Policies	4	2
PSB021	Conservation Theory	2	1
PSB032	Issues & Ethics	2	1
PSB061	Impacts & Assessment	5	2
PSB063	Housing & Community Services	5	2
PSB078	Urban Land Development	6	2

■ Bachelor of Engineering (Aerospace Avionics) (EE43)*

Location: Gardens Point campus

Course Duration: 4 years full-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Farhan Faruqi

Course Structure	Credit Points	Contact Hrs/Wk
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Year 1, Semester 1

BNB001	Learning at University	2	1.5
CEB102	Civil Engineering 1	2	1
CEB184	Engineering Mechanics 1+	7	3
CHB002	Introduction to Engineering Chemistry#	(2)	(1)
COB163	Professional Writing	6	1.5
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurements	7	3
MAB187	Engineering Mathematics 1A	6	3
MEB121	Engineering Graphics	6	3
MEB171	Introduction to Manufacturing	2	1
PHB132	Engineering Physics 1A	6	3

Year 1, Semester 2

CEB185	Engineering Mechanics 2+	7	3
EEB202	Electromagnetics	6	3
EEB203	Circuit Analysis	5	3
EEB371	Electronic Devices	5	3
MAB188	Engineering Mathematics 1B	6	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3
PHB232	Engineering Physics 2	6	3

Year 2, Semester 1

CSB490	Software Engineering	6	3
EEB303	Network Theory 1	8	3
EEB362	Introduction to Communication Systems	6	3

* See course requirements and notes relating to undergraduate courses.

+ Students who have not successfully completed CEB184 Engineering Mechanics 1 or CEB185 Engineering Mechanics 2 may enrol in the equivalent units CEB001 Engineering Mechanics A or CEB002 Engineering Mechanics B which will be offered during the summer vacation.

CHB002 Introduction to Engineering Chemistry is to be taken by those students not obtaining a 'Sound Achievement' in Year 12 Chemistry. All other students must apply for an exemption from this unit.

EEB373	Digital Electronics Principles	6	3
EEB471	Electronics	8	3
MAB493/1	Engineering Mathematics 2	6	3
MEB362	Thermo-Fluids	7	3

Year 2, Semester 2

EEB401	Network Theory 2	6	3
EEB430	Engineering Fields	6	3
EEB473	Integrated Circuits	6	3
EEB474	Microprocessors	6	3
EEB520	Control Engineering	6	3
EEB692	Space Technology	6	3
MAB493/2	Engineering Mathematics 2	6	3
MEB454	Aerodynamics 1	6	3

Year 3, Semester 1

EEB562	Transmission & Propagation	6	3
EEB563	Signals & Linear Systems	6	3
EEB580	Aerospace Design 1	6	3
EEB620	Control Systems Analysis	6	3
EEB661	Information Theory & Noise	6	3
MAB893	Engineering Mathematics 3	6	3
MEB553	Aerodynamics 2	6	3
MEB690	Aircraft Systems	6	3

Year 3, Semester 2

EEB602	Signal Processing	6	3
EEB662	Microwave & Antenna Technology	7	3
EEB680	Aerospace Design 2	6	3
EEB691	Aeronautical Computing	6	3
EEB967	Digital Communications	6	3
MAB894	Engineering Mathematics 4	6	3
MEB551	Propulsion & Engines	5	3
MEB611	Stability & Control of Aircraft	5	3

Year 4, Semester 1

EEB722	Flight Control Systems	6	3
EEB780	Aerospace Design 3	6	3
EEB784/1	Aerospace Project	12	6
EEB947	Radar & Radio Navigational Aids	6	3
MEB790	Spacecraft & Satellite Design	6	3
SVB645	Remote Sensing	5	3
	One Elective Unit	7	3

Year 4, Semester 2

EEB601	Real-time Operating Systems	6	3
EEB784/2	Aerospace Project	15	6
EEB880	Aerospace Design 4	7	3
MEB740	Maintenance Management & Technology	6	3
	Two Elective Units	14	6

Elective Units

EEB932	Automatic Flight Control	7	3
EEB933	Combat Systems	7	3
EEB934	Advanced Communications & Navigation Systems	7	3
EEB935	Advanced Satellite Systems	7	3
EEB968	Digital Signal Processing	6	3
EEB980	Aerospace Law	7	3
FNB116	Financial Management for Engineers	8	2
HRB111	Industrial Management	6	3
MEB774	Operations Management	7	3
	Any approved unit offered for EE44		
	BEng(Electrical & Computer Engineering)	7	3

■ Bachelor of Engineering (Civil) (CE42)*

Location: Gardens Point campus

Course Duration: 4 years full-time, 6 years part-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Terry Piggott

Professional Recognition

This degree meets the requirements for membership of the Institution of Engineers, Australia.

Environmental Engineering Stream

Students may elect to enter the environmental stream of this course at the end of Year 2 full-time or at the end of Semester I in Year 4 part-time. This will involve the taking of two alternative core units and four prescribed elective units, in addition to some environmentally based topics in design units and project. Special conditions apply to students wishing to return to the main course from the environmental engineering stream.

Environmental Engineering Major

Subject to University approval, a major in Environmental Engineering will be offered to students at the end of Year 1, Semester 1. This will involve taking over the length of the course 96 credit points of alternative core units, elective units, and some environmentally based topics in design units and project. Further information about the Environmental Engineering Major is available from the School of Civil Engineering.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BNB001	Learning at University	2	1.5
CEB102	Civil Engineering 1	2	1
CEB184	Engineering Mechanics 1+	7	3
CHB002	Introduction to Engineering Chemistry#	(2)	(1)
COB163	Professional Writing	6	1.5
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurements	7	3
MAB187	Engineering Mathematics 1A	6	3
MEB121	Engineering Graphics	6	3
MEB171	Introduction to Manufacturing	2	1
PHB132	Engineering Physics 1A	6	3
Year 1, Semester 2			
CEB185	Engineering Mechanics 2+	7	3
CHB346	Engineering Chemistry C	4	2
CSB291	Introduction to FORTRAN	4	2
MAB188	Engineering Mathematics 1B	6	3
MEB111	Dynamics	7	3

* See course requirements and notes relating to undergraduate courses.

+ Students who have not successfully completed CEB184 Engineering Mechanics 1 or CEB185 Engineering Mechanics 2 may enrol in the equivalent units CEB001 Engineering Mechanics A or CEB002 Engineering Mechanics B which will be offered during the summer vacation.

CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Year 12 Chemistry. All other students must apply for an exemption from this unit.

CEB305	Construction Planning & Economics 1	6	3
CEB360	Hydraulic Engineering 1	6	3
CHB346	Engineering Chemistry C	4	2
Year 4, Semester 1			
CEB220	Civil Systems 1	6	3
CEB241	Soil Mechanics 2	7	3
CEB354	Structural Engineering 2	7	3
CEB460	Hydraulic Engineering 2*	7	3
EEB101	Circuits & Measurements	7	3
Year 4, Semester 2			
CEB312	Highway Engineering	6	3
CEB341	Geotechnical Engineering 1	6	3
CEB355	Structural Engineering 3	6	3
	OR		
CHB491	Environmental Chemistry+	6	3
CEB361	Hydrology	6	3
CEB370	Public Health Engineering 1	6	3
Year 5, Semester 1			
CEB304/1	Civil Engineering Design 1	8	4
CEB306	Concrete Structures 2*	7	3
	OR		
CEB375	Environmental Science & Technology	7	3
CEB313	Traffic Engineering	6	3
CEB393	Engineering Investigation & Reporting 1	3	2
CEB470	Public Health Engineering 2	5	3
CEB492	Engineering Investigation & Reporting 2	3	1
Year 5, Semester 2			
CEB304/2	Civil Engineering Design 1	8	4
CEB308	Construction Planning & Economics 2	4	2
CEB406	Structural Applications*	6	3
CEB422	Civil Systems 2	5	2
CEB430	Building Construction	2	1
	Elective Unit	6	3
Year 6, Semester 1			
CEB401	Design Project	8	3
CEB405/1	Civil Engineering Design 2	6	3
CEB491/1	Project (Civil)*	9	3
	Elective Units (2 of)	12	6
	OR		
CEB543	Environmental Geohydrology+, AND	6	3
CEB561	Coastal Engineering+	6	3
Year 6, Semester 2			
CEB403	Professional Practice	7	2
CEB405/2	Civil Engineering Design 2	6	3
CEB491/2	Project (Civil)*	9	3
	Elective Units (2 of)	12	6
	OR		
CEB570	Public Health Engineering 3+, AND	6	3
CEB575	Environmental Impact Assessment+	6	3
Elective Units			
FIRST SEMESTER			
CEB501	Civil Engineering Practice 1	6	3
CEB505	Project Management & Administration	6	3

* Safety boots must be worn for practical exercises and field trips.

+ Alternative unit compulsory for the Environmental Engineering Stream.

CEB512	Transport Engineering 1	6	3
CEB541	Geotechnical Engineering 2	6	3
CEB543	Environmental Geohydrology*	6	3
CEB551	Advanced Structural Design	6	3
CEB561	Coastal Engineering*	6	3

SECOND SEMESTER

CEB503	Advanced Construction Methods	6	3
CEB506	Civil Engineering Practice 2	6	3
CEB511	Transport Engineering 2	6	3
CEB520	Finite Element Methods	6	3
CEB531	Masonry Design+	6	3
CEB542	Geotechnical Engineering 3	6	3
CEB560	Hydraulic Engineering 3	6	3
CEB570	Public Health Engineering 3*	6	3
CEB575	Environmental Impact Assessment*	6	3

Note: Student's elective programs are subject to approval by the Head of School.

■ Bachelor of Engineering (Electrical and Computer Engineering) (EE44)#

Location: Gardens Point campus

Course Duration: 4 years full-time, 6 years part-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Tee Tang

Professional Recognition

This degree meets the requirements for membership of the Institution of Engineers, Australia and of the Institution of Radio and Electronics Engineers.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BNB001	Learning at University	2	1.5
CEB102	Civil Engineering 1	2	1
CEB184	Engineering Mechanics 1**	7	3
CHB002	Introduction to Engineering Chemistry++	(2)	(1)
COB163	Professional Writing	6	1.5
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurements	7	3
MAB187	Engineering Mathematics 1A	6	3
MEB121	Engineering Graphics	6	3
MEB171	Introduction to Manufacturing	2	1
PHB132	Engineering Physics 1A	6	3

* Alternative unit compulsory for the Environmental Engineering Stream.

+ Safety boots must be worn for practical exercises and field trips.

See course requirements and notes relating to undergraduate courses.

** Students who have not successfully completed CEB184 Engineering Mechanics 1 may enrol in the equivalent unit CEB001 Engineering Mechanics A which will be offered during the summer vacation.

++ CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Year 12 Chemistry. All other students must apply for an exemption from this unit.

Year 1, Semester 2

CSB291	Introduction to FORTRAN	4	2
EEB202	Electromagnetics	6	3
EEB203	Circuit Analysis	5	3
EEB272	Digital Principles	3	1.5
EEB371	Electronic Devices	5	3
MAB188	Engineering Mathematics 1B	6	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3
PHB232	Engineering Physics 2A	6	3

Year 2, Semester 1

CSB490	Software Engineering	6	3
EEB302	Electrotechnology	6	3
EEB303	Network Theory 1	8	3
EEB362	Introduction to Communication Systems	6	3
EEB372	Sequential Logic	7	3
EEB471	Electronics	8	3
MAB493/1	Engineering Mathematics 2	6	3

Year 2, Semester 2

EEB400	Electrical Power Systems	6	3
EEB401	Network Theory 2	6	3
EEB430	Engineering Fields	6	3
EEB473	Integrated Circuits	6	3
EEB474	Microprocessors	6	3
EEB520	Control Engineering	6	3
EEB587	Design 1	6	3
MAB493/2	Engineering Mathematics 2	6	3

Year 3, Semester 1

EEB404	Electrical Machines	6	3
EEB553	Electrical Power Equipment OR	6	3
EEB661	Information Theory & Noise	6	3
EEB562	Transmission & Propagation	6	3
EEB563	Signals & Linear Systems	6	3
EEB573	Industrial Electronics	6	3
EEB591	Systems Programming Languages	6	3
EEB620	Control Systems Analysis	6	3
MAB893	Engineering Mathematics 3	6	3

Year 3, Semester 2

EEB531	Electrical Power Transmission OR	6	3
EEB967	Digital Communications	6	3
EEB601	Real-time Operating Systems	6	3
EEB602	Signal Processing	6	3
EEB621	Advanced Control Systems	6	3
EEB788	Design 2	8	3
EEB971	Applied Electronics	6	3
MAB894	Engineering Mathematics 4 General Elective Unit	6 4	3 2

Year 4, Semester 1

EEB652	Power Electronics OR	7	3
EEB662	Microwave & Antenna Technology	7	3
EEB742	Power Systems Engineering OR	6	3
EEB968	Digital Signal Processing	6	3
EEB789/1	Project	15	6
EEB821	Production Technology & Quality	6	3

EEB887	Design 3	6	3
	Technical Elective Unit	7	3
Year 4, Semester 2			
EEB741	Power Systems Analysis	8	3
	OR		
EEB891	Signal Computing & Real Time DSP	8	3
EEB789/2	Project	15	6
EEB820	Engineering Management	8	3
EEB888	Design 4	10	3
	Technical Elective Unit	7	3

Part-Time Course Structure

Year 1, Semester 1

CHB002	Introduction to Engineering Chemistry*	(2)	(1)
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurements	7	3
MAB187	Engineering Mathematics 1A	6	3
MEB121	Engineering Graphics	6	3
PHB132	Engineering Physics 1A	6	3

Year 1, Semester 2

CSB291	Introduction to FORTRAN	4	2
EEB203	Circuit Analysis	5	3
EEB272	Digital Principles	3	1.5
EEB371	Electronic Devices	5	3
MAB188	Engineering Mathematics 1B	6	3
PHB232	Engineering Physics 2A	6	3

Year 2, Semester 1

COB163	Professional Writing	6	1.5
EEB303	Network Theory 1	8	3
EEB362	Introduction to Communication systems	6	3
EEB471	Electronics	8	3
MAB493/1	Engineering Mathematics 2	6	3

Year 2, Semester 2

EEB202	Electromagnetics	6	3
EEB401	Network Theory 2	6	3
EEB587	Design 1	6	3
MAB493/2	Engineering Mathematics 2	6	3
MEB133	Materials 1	6	3

Year 3, Semester 1

CEB184	Engineering Mechanics 1+	7	3
EEB302	Electrotechnology	6	3
EEB372	Sequential Logic	7	3
EEB563	Signals & Linear Systems	6	3
MAB893	Engineering Mathematics 3	6	3

Year 3, Semester 2

EEB400	Electrical Power Systems	6	3
EEB473	Integrated Circuits	6	3
EEB474	Microprocessors	6	3
EEB520	Control Engineering	6	3
MAB894	Engineering Mathematics 4	6	3

* CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Year 12 Chemistry. All other students must apply for an exemption from this unit.

+ Students who have not successfully completed CEB184 Engineering Mechanics 1 may enrol in the equivalent unit CEB001 Engineering Mechanics A which will be offered during the summer vacation.

Year 4, Semester 1

CSB490	Software Engineering	6	3
EEB404	Electrical Machines	6	3
EEB573	Industrial Electronics	6	3
EEB591	Systems Programming Languages	6	3
EEB620	Control Systems Analysis	6	3

Year 4, Semester 2

EEB430	Engineering Fields	6	3
EEB601	Real-time Operating Systems	6	3
EEB602	Signal Processing	6	3
EEB971	Applied Electronics	6	3
MEB111	Dynamics	7	3

Year 5, Semester 1

CEB102	Civil Engineering 1	2	1
EEB553	Electrical Power Equipment OR	6	3
EEB661	Information Theory & Noise	6	3
EEB562	Transmission & Propagation	6	3
EEB788	Design 2	8	3
EEB821	Production Technology & Quality	6	3
MEB171	Introduction to Manufacturing	2	1

Year 5, Semester 2

EEB531	Electrical Power Transmission OR	6	3
EEB967	Digital Communications	6	3
EEB621	Advanced Control Systems	6	3
EEB820	Engineering Management	8	3
EEB887	Design 3	6	3
	General Elective Unit	4	2

Year 6, Semester 1

EEB652	Power Electronics OR	7	3
EEB662	Microwave & Antenna Technology	7	3
EEB742	Power Systems Engineering OR	6	3
EEB968	Digital Signal Processing	6	3
EEB789/1	Project	15	6
	Technical Elective Unit	7	3

Year 6, Semester 2

EEB741	Power Systems Analysis OR	8	3
EEB891	Signal Computing & Realtime DSP	8	3
EEB789/2	Project	15	6
EEB888	Design 4	10	3
	Technical Elective Unit	7	3

General Elective Units

BNB103	General Elective Unit	4	2
EEB600	Starting a Technology Based Business	4	2
FNB125	Personal & Corporate Finance	4	2
HRB121	Management	4	2
ISB393	Computer Based Information Systems	4	2
SSB907	Psychology for Engineers	4	2

Technical Elective Units

EEB761	Statistical Communications	7	3
EEB841	Mining Electrotechnology	7	3
EEB890	Advanced Information Technology Topics	7	3

EEB922	Computer Controlled Systems	7	3
EEB951	High Voltage Equipment	7	3
EEB954	Electrical Energy Utilisation	7	3
EEB955	Power Electronics Applications	7	3
EEB956	Photovoltaic Engineering	7	3
EEB961	Communications Techniques	7	3
EEB962	Microwave Systems Engineering	7	3
EEB969	Digital Spectral Analysis	7	3
EEB972	Integrated Electronic Techniques	7	3
ITB548	Introduction to Cryptology	12	3
ITB560	Introduction to Cryptology	7	4
ITB561	Error Control & Data Compression	7	4
ITN546	Advanced Topics in Cryptology	12	3
OR			
Any alternative core unit not previously completed, or advanced unit from Computing Science.			

■ Bachelor of Engineering (Mechanical) (ME45)*

Location: Gardens Point campus

Course Duration: 4 years full-time, 6 years part-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Doug Hargreaves

Professional Recognition

This degree is recognised for the purpose of membership of the Institution of Engineers, Australia.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BNB001	Learning at University	2	1.5
CEB102	Civil Engineering 1	2	1
CEB184	Engineering Mechanics 1+	7	3
CHB002	Introduction to Engineering Chemistry#	(2)	(1)
COB163	Professional Writing	6	1.5
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurement	7	3
MAB187	Engineering Mathematics 1A	6	3
MEB121	Engineering Graphics	6	3
MEB171	Introduction to Manufacturing	2	1
PHB132	Engineering Physics 1A	6	3
Year 1, Semester 2			
CEB185	Engineering Mechanics 2+	7	3
CHB344	Engineering Chemistry M	4	2
CSB291	Introduction to FORTRAN	4	2
EEB202	Electromagnetics	6	3

* See course requirements and notes relating to undergraduate courses.

+ Students who have not successfully completed CEB184 Engineering Mechanics 1 or CEB185 Engineering Mechanics 2 may enrol in the equivalent units CEB001 Engineering Mechanics A or CEB002 Engineering Mechanics B which will be offered during the summer vacation.

CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Year 12 Chemistry. All other students must apply for an exemption in this unit.

MAB188	Engineering Mathematics 1B	6	3
MEB101	Design 1	8	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3
Year 2, Semester 1			
EEB209	Electrical Engineering 2M	6	3
MAB493/1	Engineering Mathematics 2	6	3
MEB230	Materials 2	6	3
MEB250	Thermodynamics 1	6	3
MEB313	Mechanics 1	6	3
MEB361	Fluids 1	6	3
MEB370	Manufacturing Systems 1	6	3
MEB381	Design 2	6	3
Year 2, Semester 2			
MAB493/2	Engineering Mathematics 2	6	3
MEB231	Materials 3	6	3
MEB251	Thermodynamics 2	6	3
MEB411	Theory of Machines	7	3
MEB462	Fluids 2	6	3
MEB472	Manufacturing Systems 2	6	3
MEB483	Design 3	7	3
	Group A Elective Unit	4	2
Year 3, Semester 1			
MAB893	Engineering Mathematics 3	6	3
MEB502	Research Methods	8	4
MEB510	Noise & Vibrations	7	3
MEB511	Stress Analysis	7	3
MEB550	Heat Transfer	6	3
MEB773	Design for Manufacturing 1	7	3
	Group B Elective Unit	7	3
Year 3, Semester 2			
EEB273	Microcomputers in Engineering	4	2
MEB463	Tribology	6	3
MEB610	Mechanics 2	6	3
MEB640	Automation 1	7	3
MEB650	Thermodynamics 3	6	3
MEB660	Fluid Power	6	3
MEB670	Industrial Engineering 1	6	3
	Group C Elective Unit	7	3
Year 4, Semester 1			
FNB116	Financial Management for Engineers	8	2
MEB464	Fluids 3	7	3
MEB489/1	Mechanical Design Project*	7	3
MEB710	Automation 2	6	3
MEB771	Industrial Engineering 2	6	3
MEB911	Finite Element Analysis	7	3
	Group D Elective Unit	7	3
Year 4, Semester 2			
HRB111	Industrial Management	8	2
MEB408	Project 1*	14	6
MEB489/2	Mechanical Design Project*	7	3
MEB772	Engineering Project Appraisal	6	3
MEB981	Design of Materials Handling Systems	6	3
	Group E Elective Unit	7	3

* All students must complete MEB489 Mechanical Design Project and MEB408 Project 1 (or MEB409 Project 2).

Part-Time Course Structure

Year 1, Semester 1

CEB184	Engineering Mechanics 1*	7	3
CHB002	Introduction to Engineering Chemistry+	(2)	(1)
COB163	Professional Writing	6	1.5
MAB187	Engineering Mathematics 1A	6	3
MEB121	Engineering Graphics	6	3
PHB132	Engineering Physics 1A	6	3

Year 1, Semester 2

CEB185	Engineering Mechanics 2*	7	3
CHB344	Engineering Chemistry M	4	2
MAB188	Engineering Mathematics 1B	6	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3

Year 2, Semester 1

CEB102	Civil Engineering 1	2	1
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurements	7	3
MAB493/1	Engineering Mathematics 2	6	3
MEB171	Introduction to Manufacturing	2	1
MEB230	Materials 2	6	3

Year 2, Semester 2

CSB291	Introduction to FORTRAN	4	2
EEB202	Electromagnetics	6	3
EEB273	Microcomputers in Engineering	4	2
MAB493/2	Engineering Mathematics 2	6	3
MEB101	Design 1	8	3
	Group A Elective Unit	4	2

Year 3, Semester 1

MAB893	Engineering Mathematics 3	6	3
MEB250	Thermodynamics 1	6	3
MEB313	Mechanics 1	6	3
MEB361	Fluids 1	6	3
MEB773	Design for Manufacturing 1	7	3

Year 3, Semester 2

MEB231	Materials 3	6	3
MEB251	Thermodynamics 2	6	3
MEB411	Theory of Machines	7	3
MEB462	Fluids 2	6	3
MEB463	Tribology	6	3

Year 4, Semester 1

EEB209	Electrical Engineering 2M	6	3
MEB370	Manufacturing Systems 1	6	3
MEB381	Design 2	6	3
MEB511	Stress Analysis	7	3
MEB550	Heat Transfer	6	3

Year 4, Semester 2

MEB472	Manufacturing Systems 2	6	3
MEB483	Design 3	7	3
MEB610	Mechanics 2	6	3

* Students who have not successfully completed CEB184 Engineering Mechanics 1 or CEB185 Engineering Mechanics 2 may enrol in the equivalent units CEB001 Engineering Mechanics A or CEB002 Engineering Mechanics B which will be offered during the summer vacation.

+ CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Year 12 Chemistry. All other students should apply for an exemption in this unit.

MEB640	Automation 1	7	3
MEB670	Industrial Engineering 1	6	3

Year 5, Semester 1

FNB116	Financial Management for Engineers	8	2
MEB464	Fluids 3	7	3
MEB510	Noise & Vibrations	7	3
MEB911	Finite Element Analysis	7	3
	Group B Elective Unit	7	3

Year 5, Semester 2

MEB502	Research Methods	8	4
MEB650	Thermodynamics 3	6	3
MEB660	Fluid Power	6	3
MEB981	Design of Materials Handling Systems	6	3
	Group C Elective Unit	7	3

Year 6, Semester 1

MEB409/1	Project 2*	7	3
MEB489/1	Mechanical Design Project*	7	3
MEB710	Automation 2	6	3
MEB771	Industrial Engineering 2	6	3
	Group D Elective Unit	7	3

Year 6, Semester 2

HRB111	Industrial Management	8	2
MEB409/2	Project 2*	7	3
MEB489/2	Mechanical Design Project*	7	3
MEB772	Engineering Project Appraisal	6	3
	Group E Elective Unit	7	3

Elective Units

GROUP A

BNB103	General Elective Unit	4	2
EEB600	Starting a Technology Based Business	4	2
ISB393	Computer Based Information Systems	4	2
SSB907	Psychology for Engineers	4	2

GROUP B

MEB450	Air Conditioning	7	3
MEB500	Special Topic 1	7	3
MEB531	Advanced Materials	7	3

GROUP C

MEB601	Special Topic 2	7	3
MEB680	Advanced Mechanical Design	7	3
MEB950	Process Plant Design	7	3
MEB976	Computer Integrated Manufacturing	7	3

GROUP D

MEB701	Special Topic 3	7	3
MEB977	Computer Control of Manufacturing Systems	7	3
MEB980	Design of Power Transmission Systems	7	3

GROUP E

MEB800	Special Topic 4	7	3
MEB810	Industrial Noise & Vibration	7	3
MEB960	Fluid Systems Design	7	3
MEB975	Design of Manufacturing Systems	7	3

* All students must complete MEB489 Mechanical Design Project and MEB408 Project 1 (or MEB409 Project 2).

■ Bachelor of Engineering (Medical) (ME46)*

Location: Gardens Point

Course Duration: 4 years full-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: To be advised

Professional Recognition

Accreditation for the course is being sought from the Institution of Engineers, Australia. Graduates would be professionally recognised to practise as either biomedical or mechanical engineers.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CEB184	Engineering Mechanics 1	7	3
CSB191	Introduction to Computing	4	2
EEB101	Circuits & Measurements	7	3
LSB131	Anatomy	12	6
MAB187	Engineering Mathematics 1A	6	3
MEB190	Engineering in the Medical Environment	6	3
PHB132	Engineering Physics 1A	6	3
Year 1, Semester 2			
CEB185	Engineering Mechanics 2	7	3
EEB202	Electromagnetics	6	3
LSB231	Physiology	12	6
MAB188	Engineering Mathematics 1B	6	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3
MEB191	Unix & C	4	2
Year 2, Semester 1			
HMB274	Functional Anatomy	12	4
LSB132	Cell Biology	8	3
MAB493/1	Engineering Mathematics 2	6	3
MEB121	Engineering Graphics	6	3
MEB250	Thermodynamics 1	6	3
MEB361	Fluids 1	6	3
Year 2, Semester 2			
HMB272	Biomechanics	12	4
MAB493/2	Engineering Mathematics 2	6	3
MEB313	Mechanics 1	6	3
MEB333	Biomaterials	8	3
MEB465	Biofluids	8	3
MEB484	Bioengineering Design 1	8	3
Year 3, Semester 1			
EEB371	Electronic Devices	5	3
MAB893	Engineering Mathematics 3	6	3
MEB370	Manufacturing Systems 1	6	3
MEB580	Bioengineering Design 2	8	3

* Offered subject to final University approval. See course requirements and notes relating to undergraduate courses.

PHB504	Instrumentation Group A Elective Unit	8	3
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Year 3, Semester 2

COB136	Professional Communication	6	3
MEB463	Tribology	6	3
MEB511	Stress Analysis	7	3
MEB640	Automation 1	7	3
MEB681	Bioengineering Design 3 Group B Elective Unit	8	3

Year 4, Semester 1

FNB116	Financial Management for Engineers	8	2
HMB610	Clinical Measurement	8	3
MEB490/1	Project	8	3
MEB701	Special Topic 3	7	3
PUB210	Occupational Health & Safety 1 Group C Elective Unit	8	4

Year 4, Semester 2

HRB111	Industrial Management	6	3
MEB490/2	Project	8	3
MEB670	Industrial Engineering 1	6	3
MEB891	Health Legislation & Medical Environment	8	3
PUB211	Occupational Health & Safety 2 Group D Elective Unit	8	4

Elective Units

GROUP A

HMB614	Biophysical Bases of Movement Rehabilitation	8	3
HMB615	Exercise Physiology	8	3
MEB231	Materials 3	6	3

GROUP B

HMB616	Psychology of Rehabilitation	8	3
HMB617	Workplace Health	8	3
MEB680	Advanced Mechanical Design	7	3

GROUP C

HMB611	Human Performance	8	3
MEB472	Manufacturing Systems 2	6	3
MEB780	Rehabilitation Equipment Design & Evaluation	8	3

GROUP D

MEB450	Air Conditioning	7	3
MEB800	Special Topic 4	7	3
MEB892	Robotics in Health Care	8	3

■ Bachelor of Surveying (PS47)*

Location: Gardens Point campus

Course Duration: 4 years full-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Jim Glasscock

* See course requirements and notes relating to undergraduate courses.

Professional Recognition

This degree meets the educational requirements for registration and licensing by the Surveyors Board of Queensland and also satisfies the academic requirements for admission as a member of both the Institution of Surveyors (Australia) and the Australian Institute of Cartographers.

Special Course Requirements

Students must obtain at least 90 days of industrial employment/practice in a surveying environment approved by the course coordinator.

Students must, not later than the fourth week of the semester immediately following each period of industrial employment/practice, submit to the course coordinator a report or diary in the required format, describing the work carried out during the period of employment/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the School Office, Faculty Industrial Employment Officer in Room 602 O Block, Gardens Point campus and also from the Faculty Office. Should employment exceed the minimum required, it is strongly recommended that these details also be recorded in the report or diaries and certified by the employer as a record of experience which may be used when seeking registration or licensing by the Surveyors Board. Students **should not formally enrol** in industrial employment/practice.

Students may be required to attend camps off-campus and/or practical sessions in the Moreton region.

Specialisations

There are two specialisations built into the course - Surveying and Mapping. Most units are common to both specialisations. However in specific semesters, specialised units are to be undertaken in either surveying or mapping and these are highlighted in the course structure.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BNB001	Learning at University	2	1.5
COB163	Professional Writing	6	1.5
CSB191	Introduction to Computing	4	2
ESB519	Geology for Engineers	6	3
MAB187	Engineering Mathematics 1A	6	3
MEB121	Engineering Graphics	6	3
PHB132	Engineering Physics 1A	6	3
PSB315	Land Administration 1	6	3
PSB325	Land Surveying 1	8	3
Year 1, Semester 2			
CSB291	Introduction to FORTRAN	4	2
MAB188	Engineering Mathematics 1B	6	3
PHB172	Physics for Surveyors	6	3
PSB306	Cartography 1	8	3
PSB316	Land Administration 2	8	3
PSB323	Land Studies 1	6	3
PSB326	Land Surveying 2	8	3
Year 2, Semester 1			
MAB494	Survey Mathematics 1	6	3
MAB893	Engineering Mathematics 3	6	3
MEB221	Engineering Science 1	6	3

PSB054	Environmental Science	4	2
PSB307	Cartography 2	8	3
PSB319	Land Administration 5*	6	3
PSB327	Land Surveying 3+	10	3
PSB342	Spatial Information Science 1	8	3
PSB902	Urban Planning 1*	4	2

Year 2, Semester 2

CEB364	Engineering Science 2	6	3
MAB496	Survey Mathematics 2	6	3
PSB303	Analysis of Spatial Measurement 1	6	3
PSB308	Cartography 3	8	3
PSB317	Land Administration 3	8	3
PSB328	Land Surveying 4	8	3
PSB334	Photogrammetry 1	6	3

Year 3, Semester 1

MAB795	Survey Mathematics 3	6	3
PSB304	Analysis of Spatial Measurement 2	6	3
PSB309	Cartography 4	8	3
PSB329	Land Surveying 5	8	3
PSB333	Map Projections	6	3
PSB335	Photogrammetry 2	8	3
PSB346	Spheroidal Computations	6	3

Year 3, Semester 2

CEB464	Engineering Science 3	6	3
PSB310	Geodesy 1	6	3
PSB318	Land Administration 4	6	3
PSB320	Land Development Practice 1	8	3
PSB324	Land Studies 2	6	3
PSB330	Land Surveying 6+	8	3
PSB336	Photogrammetry 3	8	3
PSB343	Spatial Information Science 2*	8	3

Year 4, Semester 1

PSB339/1	Project	8	3
CEB564	Engineering Science 4	6	3
PSB321	Land Development Practice 2	8	3
PSB331	Land Surveying 7	8	3
PSB340	Remote Sensing 1	6	3
PSB344	Spatial Information Science 3*	8	3
	Elective Units*	12	6
	Elective Units+	4	3

Year 4, Semester 2

PSB322	Land Development Practice 3	16	6
PSB332	Land Surveying 8+	8	3
PSB338	Professional Practice	6	3
PSB339/2	Project	8	3
PSB345	Spatial Information Science 4*	8	3
	Elective Units	10	6

ELECTIVE UNITS

Year 4, Semester 1

CNB367	Real Estate Accounting 1	9	3
CNB465	Property Investment Analysis 1	8	3
CNB565	Land Management	8	3
CNB567	Real Estate Market Analysis	4	2
CNB665	Property Management 1	9	3

* This unit is to be undertaken by students in the Mapping strand only.

+ This unit is to be undertaken by students in the Surveying strand only.

PSB018	Land Use Generation	4	2
PSB021	Conservation Theory	2	1
PSB319	Land Administration 5	6	3
PSB337	Photogrammetry 4	6	3
PSB902	Urban Planning 1	4	2

Year 4, Semester 2

CNB362	Property Agency	8	3
CNB368	Real Estate Accounting 2	8	3
CNB568	Real Estate Practice	5	2.5
CNB666	Property Management 2	8	3
PSB020	Land Use Policies	4	2
PSB032	Issues & Ethics	2	1
PSB059	Population & Urban Studies	6	2
PSB061	Impacts & Assessment	5	2
PSB063	Housing & Community Services	5	2
PSB311	Geodesy 2	6	3
PSB341	Remote Sensing 2	8	3
PSB347	Topics in Engineering Surveying	6	3

■ Bachelor of Technology (Mechanical) (ME35)* Conversion Program

Location: Gardens Point campus

Course Duration: 3 years part-time

Total Credit Points: 125 (minimum)

Course Coordinator: Dr Andy Tan

Entry Requirements

Applicants require an Associate Diploma in Mechanical or Manufacturing Engineering or a Bachelor of Science degree in a relevant discipline. Applicants holding an Associate Diploma in other engineering disciplines will also be considered. Such candidates may be required to complete additional units.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MAB183	Mathematics 1+	(8)	(3)
MEB230	Materials 2	6	3
MEB773	Design for Manufacturing 1	7	3
Year 1, Semester 2			
MAB184	Mathematics 2+	(8)	(3)
MEB101	Design 1	8	3
MEB251	Thermodynamics 2	6	3
Year 2, Semester 1			
HRB148	Managing People at Work	8	2
MAB186	Mathematics 3	8	3
MEB313	Mechanics 1	6	3

* See course requirements and notes relating to undergraduate courses.

+ Students who do not have the equivalent of MAB183 Mathematics 1 and MAB184 Mathematics 2 are required to enrol in these additional units.

Year 2, Semester 2

MAB185	Introduction to Statistics	8	3
MEB462	Fluids 2	6	3
MEB472	Manufacturing Systems 2	6	3

Year 3, Semester 1

MEB463	Tribology	6	3
MEB501/1	Project	8	3
MEB674	Industrial Engineering Group A Elective Unit	8	3

Year 3, Semester 2

HRB149	Human Resources & Industrial Relations	8	2
MEB501/2	Project	8	3
MEB740	Maintenance Management & Technology Group B Elective Unit	6	3

Elective Units**GROUP A**

MEB450	Air Conditioning	7	3
MEB660	Fluid Power	6	3
MEB675	Plastics Technology	7	3

GROUP B

MEB550	Heat Transfer	6	3
MEB612	Mechanical Measurements	8	3
MEB976	Computer Integrated Manufacturing	7	3

■ Associate Diploma in Cartography (SV24)

Course Discontinued: No further intakes

Location: Gardens Point campus

Course Duration: 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Professional Recognition

The course is recognised for Associate Membership of the Australian Institute of Cartographers.

Course Structure

Credit Points	Contact Hrs/Wk
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Year 4, Semester 1

SVT742	Map Projections 2	8	3
SVT915	Cartography 3	8	3
SVT992	Computer Graphics 2	8	3

Year 4, Semester 2

SVT826	Cartographic Administration	8	3
SVT916	Cartography 4	8	3
SVT945	Remote Sensing	8	3

■ Associate Diploma in Civil Engineering (CE21)*

Location: Gardens Point campus

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Frank Bullen

Professional Recognition

This course is recognised for associate membership of the Institution of Engineers, Australia, and membership of the Society of Engineering Associates and of the Institute for Drafting and Design, Australia.

Course Requirements/Notes

There are two majors in the course: a General Major and a Water and Wastewater Process Operation Major. The General Major is offered both full-time and part-time. The Water and Wastewater Process Operation Major will be offered in the part-time mode, subject to quotas.

The first four semesters of the part-time course are common to the General and Water and Wastewater Process Operation Majors.

Generally a full-time student will gain 24 credit points by successfully completing eight practical experience units designated by the suffix 'A' after the unit name, and a part-time student will gain 24 credit points for successfully completing 120 weeks of approved industrial employment, that is 15 weeks for each of the 8 industrial employment units, before being eligible for the Associate Diploma award. However a combination of practical experience units and industrial employment totalling 24 credit points will be accepted. Industrial employment units 4 to 8 must involve the student in civil engineering work. Forms for obtaining credit for industrial employment are available from the Faculty office. For the employment to be recognised, students must enrol in the industrial employment unit(s) in the semester in which they expect to submit their completed form for obtaining credit. The form must be completed by both the student and the employer. Details of acceptable industrial employment can be obtained from the course coordinator.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
GENERAL MAJOR (GEN)			
Year 1, Semester 1			
CET120	Civil Systems 1	7	3
CET135	Engineering Mechanics	7	3
CET180	Civil Drafting Practice A	3	2
CET195	Civil Engineering	7	3
CET815	Road Location & Design	7	3
CET894	Computations A	3	2
MET120	Engineering Drawing 1	7	3
PST901	Engineering Surveying	7	3
Year 1, Semester 2			
CET190	Civil Engineering Materials+	7	3
CET235	Laboratory Practice A	3	2

* See course requirements and notes relating to undergraduate courses.

+ Safety boots must be worn for practical exercises and field trip.

CET255	Structural Mechanics	7	3
CET286	Civil Office Practice	7	3
CET287	Civil Office Practice A	3	2
CET365	Hydraulic Engineering	7	3
CET435	Concrete Practice*	7	3
CET645	Soil Mechanics	7	3

Year 2, Semester 1

CET306	Field Practice 1A*	3	2
CET387	Civil Engineering Drafting A	3	2
CET565	Road & Drainage Engineering	7	3
CET585	Civil Engineering Drafting	7	3
CET756	Building Construction Practice	7	3
CET775	Public Health Engineering	7	3
	List B1 Elective Unit	7	3
	List B2 Elective Unit	7	3

Year 2, Semester 2

CET405	Field Practice 2A*	3	2
CET495	Project A*	3	2
CET704	Civil Construction Practice	7	3
CET708	Specifications & Estimates	7	3
	List B1 Elective Units (2 of)	14	6
	List B2 Elective Units (2 of)	14	6

Part-Time Course Structure

GENERAL MAJOR (GEN)

Year 1, Semester 1

CET135	Engineering Mechanics	7	3
CET195	Civil Engineering	7	3
MET120	Engineering Drawing 1	7	3

Year 1, Semester 2

CET190	Civil Engineering Materials*	7	3
CET255	Structural Mechanics	7	3
CET286	Civil Office Practice	7	3

Year 2, Semester 1

CET120	Civil Systems 1	7	3
CET815	Road Location & Design	7	3
PST901	Engineering Surveying	7	3

Year 2, Semester 2

CET365	Hydraulic Engineering	7	3
CET435	Concrete Practice*	7	3
CET645	Soil Mechanics	7	3

Year 3, Semester 1

CET565	Road & Drainage Engineering	7	3
CET585	Civil Engineering Drafting	7	3
CET775	Public Health Engineering	7	3

Year 3, Semester 2

CET708	Specifications & Estimates	7	3
CET756	Building Construction Practice	7	3
	List B1 Elective Unit	7	3

Year 4, Semester 1

CET704	Civil Construction Practice	7	3
	List B1 Elective Unit	7	3
	List B2 Elective Unit	7	3

* Safety boots must be worn for practical exercises and field trips

Year 4, Semester 2

List B1 Elective Unit	7	3
List B2 Elective Units (2 of)	14	6

**WATER AND WASTEWATER PROCESS OPERATION MAJOR
Years 1 and 2**

As for General Major

Year 3, Semester 1

CET565	Road & Drainage Engineering	}	7	3
CET585	Civil Engineering Drafting		7	3
CET775	Public Health Engineering		7	3
	OR			
CET598	Project 2		21	9

Year 3, Semester 2

CET776	Equipment Operation & Maintenance	7	3
CHA145	Introductory Chemistry	8	3
CHA644	Process Measurement & Monitoring 1	7	3

Year 4, Semester 1

CET606	Construction Management	7	3
CET777	Process Operation & Control 1	7	3
CHA744	Process Measurement & Monitoring 2	7	3

Year 4, Semester 2

CET876	Plant Operation & Maintenance	7	3
CET877	Process Operation & Control 2	7	3
CHA844	Trade Waste Control	7	3

Industrial Employment Units (Part-Time only)

BNT100	Industrial Employment 1	3	15 weeks
BNT200	Industrial Employment 2	3	15 weeks
BNT300	Industrial Employment 3	3	15 weeks
BNT400	Industrial Employment 4	3	15 weeks
BNT500	Industrial Employment 5	3	15 weeks
BNT600	Industrial Employment 6	3	15 weeks
BNT700	Industrial Employment 7	3	15 weeks
BNT800	Industrial Employment 8	3	15 weeks

List A – All Elective Units in the Course

CET420	Civil Systems 2	7	3
CET606	Construction Management (Evening)	7	3
CET655	Concrete & Steel Design (Day & Evening)	7	3
CET703	Civil Engineering Practice 1	7	3
CET707	Municipal Engineering (Evening)	7	3
CET735	Advanced Laboratory Testing 1*	7	3
CET787	Structural Engineering Drawing (Day)	7	3
CET797	Project 1*	7	3
CET802	Civil Engineering Practice 2	7	3
CET838	Advanced Laboratory Testing 2	7	3
CET856	Advanced Construction Techniques	7	3
CET887	Computer Aided Drafting (Day & Evening)	7	3
CET888	Structural Drawing & Design (Day)	7	3
CHA145	Introductory Chemistry (Evening)	8	3
EST219	Engineering Geology	7	3
HRX111	Safety & Industrial Relations (Evening)	7	2
MET140	Engineering Materials 1	8	3

* Safety boots must be worn for practical exercises and field trips.

List B1 Elective Units

FIRST SEMESTER

CET606	Construction Management (Evening)	7	3
CET655	Concrete & Steel Design (Day)	7	3
CET887	Computer Aided Drafting (Evening)	7	3
EST219	Engineering Geology	7	3

SECOND SEMESTER

CET655	Concrete & Steel Design (Evening)	7	3
CET787	Structural Engineering Drawing (Day)	7	3
CET887	Computer Aided Drafting (Day & Evening)	7	3
HRX111	Safety & Industrial Relations (Evening)	7	2

List B2 Elective Units

FIRST SEMESTER

CET703	Civil Engineering Practice 1	7	3
CET707	Municipal Engineering (Evening)	7	3
CET735	Advanced Laboratory Testing 1*	7	3
CET797	Project 1*	7	3
CHA145	Introductory Chemistry (Evening)	8	3
EST219	Engineering Geology	7	3
MET140	Engineering Materials 1	8	3

SECOND SEMESTER

CET420	Civil Systems 2	7	3
CET797	Project 1*	7	3
CET802	Civil Engineering Practice 2	7	3
CET838	Advanced Laboratory Testing 2	7	3
CET856	Advanced Construction Techniques	7	3
CET888	Structural Drawing & Design (Day)	7	3

Up to 21 credit points from other modes or strands of this course or from other QUT courses may be approved by the course coordinator as alternatives to the listed elective units. The number of elective units available depends on a sufficient number of students being enrolled.

Degree level units may be selected as electives with the approval of the course coordinator.

■ Associate Diploma in Electrical Engineering (EE22)+

Course Discontinued: No further intakes

Location: Gardens Point campus

Course Duration: 1 year full-time plus 2 years part-time, 4 years part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Jim Lyall

Professional Recognition

This course is recognised for associate membership of the Institution of Engineers, Australia, and membership of the Society of Engineering Associates and of the Institute for Drafting and Design, Australia.

* Safety boots must be worn for practical exercises and field trips.

+ See course requirements and notes relating to undergraduate courses.

Course options

Students are required to select two of the following four modules as their majors – Computer Systems, Industrial Systems, Power or Telecommunications.

		Unit No.	Credit Points	Contact Hrs/Wk
COMPUTER SYSTEMS MODULE				
EET590	Microprocessor Systems	(a)	7	3
EET690	Computer Organisation	(b)	7	3
EET791	Computer Programming 2	(c)	7	3
EET891	Advanced Computing Techniques	(d)	7	3
INDUSTRIAL SYSTEMS MODULE				
EET522	Control Systems 2	(a)	7	3
EET678	Applied Electronics	(b)	7	3
EET720	Modern Control Technology	(c)	7	3
EET870	Industrial Electronics	(d)	7	3
POWER MODULE				
EET642	Electrical Power Systems	(a)	7	3
EET650	Electrical Equipment	(b)	7	3
EET753	Testing & Commissioning Techniques	(c)	7	3
EET840	Substations & Protection Systems	(d)	7	3
TELECOMMUNICATIONS MODULE				
EET560	Communications Engineering 1	(a)	7	3
EET737	Transmission & Propagation	(b)	7	3
EET760	Communications Engineering 2	(c)	7	3
EET860	Communications Technology	(d)	7	3

Full-Time/Part-Time Course Structure

Year 3, Semester 1

Major 1 Unit	(c)	7	3
Major 2 Unit	(c)	7	3
Elective Unit		7	3

Year 3, Semester 2

EET880	Design		7	3
	Major 1 Unit	(d)	7	3
	Major 2 Unit	(d)	7	3

Industrial Employment Units

BNT500	Industrial Employment 5	3	15 weeks
BNT600	Industrial Employment 6	3	15 weeks
BNT700	Industrial Employment 7	3	15 weeks
BNT800	Industrial Employment 8	3	15 weeks

Students enrolled in the one year full-time/two years part-time Associate Diploma in Electrical Engineering must engage in at least 60 weeks of approved employment, ie. 15 weeks for each of the four industrial employment units, before being eligible for the Associate Diploma award. An industrial experience record form, as for part-time students, must be submitted. Students must enrol in the industrial employment units in the semester in which they expect to submit their completed form for obtaining credit.

Part-Time Course Structure

Normally, part-time students must engage in at least 120 weeks of approved employment, ie. 15 weeks for each of the eight industrial employment units, before being eligible for the Associate Diploma award. For the employment to be recognised, students must enrol

in the industrial employment units, then submit an industrial experience record form, which has been completed by both the student and the employer. However, a combination of practical experience units and industrial experience totalling 24 credit points will be accepted. Forms are available from the Faculty office.

		Unit No.	Credit Points	Contact Hrs/Wk
Year 3, Semester 1				
EET570	Electronics 2		7	3
	Major 1 Unit	(a)	7	3
	Major 2 Unit	(a)	7	3
Year 3, Semester 2				
MET600	Materials for Electrical Engineers		4	1.5
MET601	Mechanical Plant		3	1.5
	Major 1 Unit	(b)	7	3
	Major 2 Unit	(b)	7	3
Year 4, Semester 1				
	Major 1 Unit	(c)	7	3
	Major 2 Unit	(c)	7	3
	Elective Unit		7	3
Year 4, Semester 2				
EET880	Design		7	3
	Major 1 Unit	(d)	7	3
	Major 2 Unit	(d)	7	3
Industrial Employment Units				
BNT100	Industrial Employment 1		3	15 weeks
BNT200	Industrial Employment 2		3	15 weeks
BNT300	Industrial Employment 3		3	15 weeks
BNT400	Industrial Employment 4		3	15 weeks
BNT500	Industrial Employment 5		3	15 weeks
BNT600	Industrial Employment 6		3	15 weeks
BNT700	Industrial Employment 7		3	15 weeks
BNT800	Industrial Employment 8		3	15 weeks

Notes

1. Major 1 and Major 2 units refer to units taken from two of the four modules, viz., Computer Systems, Industrial Systems, Power or Telecommunications; (a), (b), (c) and (d) refer to units within each module.
2. For the elective, a unit may be chosen from any other module which runs in the same semester. Degree level units may be selected as elective units with the approval of the course coordinator.

■ Associate Diploma in Mechanical Engineering (ME23)*

Course Discontinued: No further intakes

Location: Gardens Point campus

Course Duration: 2 years full-time, 4 years part-time

Total Credit Points: 192

* See course requirements and notes relating to undergraduate courses.

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Andy Tan

Professional Recognition

This course is recognised for associate membership of the Institution of Engineers, Australia, and membership of the Society of Engineering Associates and of the Institute for Drafting and Design, Australia.

Full-Time Course Structure: No longer offered

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 3, Semester 1			
EET500	Electrical Technology	6	3
MET250	Thermodynamics	6	3
MET580	Machine Elements 1	6	3
Year 3, Semester 2			
MET573	CAD/CAM Technology	7	3
MET920	Computer Aided Design & Drafting	6	3
MET961	Fluid Mechanics	7	3
Year 4, Semester 1			
MET572	Production Planning & Control	6	3
MET933	Industrial Tribology	6	3
	Elective Unit	6	3
Year 4, Semester 2			
MET350	Process Engineering	7	3
MET971	Industrial Practice	7	3
	Elective Unit	7	3
Elective Units			
FIRST SEMESTER			
EEB101	Circuits & Measurements (degree level)	7	3
MAB187	Engineering Mathematics 1A (degree level)	6	3
MET511	Noise, Stress & Vibration Practice	6	3
MET733	Industrial Metallurgy	6	3
MET782	Jig & Tool Design	6	3
MET850	Energy Management	6	3
PHB132	Engineering Physics 1A (degree level)	6	3
SECOND SEMESTER			
MAA251	Statistics & Data Processing	8	3
MAB188	Engineering Mathematics 1B (degree level)	6	3
MEB111	Dynamics (degree level)	7	3
MET352	Air Conditioning & Refrigeration	7	3
MET680	Machine Elements 2	7	3
MET960	Fluid Power	7	3
Industrial Experience			
BNT100	Industrial Employment 1	3	15 weeks
BNT200	Industrial Employment 2	3	15 weeks
BNT300	Industrial Employment 3	3	15 weeks
BNT400	Industrial Employment 4	3	15 weeks
BNT500	Industrial Employment 5	3	15 weeks
BNT600	Industrial Employment 6	3	15 weeks
BNT700	Industrial Employment 7	3	15 weeks
BNT800	Industrial Employment 8	3	15 weeks

Notes

1. From time to time a series of special elective units may be made available to meet industrial demand, provided both student numbers and staff resources can justify their inclusion in the course. Not all of the elective units listed will be available each semester.
2. Degree level units may be selected as elective units with the approval of the Head of School.
3. Generally, a student who has been full-time to this stage of the course will gain or have gained 24 credit points by successfully completing six practical experience units designated by the suffix 'A' after the unit name, while a part-time student will gain 24 credit points for successfully completing 120 weeks of industrial employment, that is 15 weeks for each of the eight industrial employment units, before being eligible for the Associate Diploma Award. However, a combination of practical experience units and industrial employment totalling 24 credit points will be accepted.
4. Students completing industrial employment units must enrol in the units in the semester in which they expect to submit an industrial experience record form for obtaining credit. The form must be completed by both the student and the employer. Forms are available from the Faculty office.