

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

**BUILT
ENVIRONMENT
& ENGINEERING**

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FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

Course Structures

■ 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, Interior and Industrial Design, Construction Management and Planning, 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 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 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.

* Pending satisfactory completion of the qualifying program provisional status will be applied to the candidate.

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 one year 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 limits on the length of time for which it will fund a faculty for full-time research masters degree candidates, as two years.

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 their 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 their 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 their thesis through the Principal Supervisor.

7.4 The thesis shall comply with the following requirements:

- a significant proportion of the work described (as determined by the Faculty Research Committee) must have been carried out subsequent to initial registration for the 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 of the University. No supervisor of the candidate shall be appointed as one of the examiners.

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

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

8.4 On receipt of the reports from the examiners, the Faculty Research Committee shall:

- (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)

Location: Gardens Point campus

CITY AND REGIONAL PLANNING MAJOR

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Coordinator for City and Regional Planning Major: Associate Professor Phil Heywood

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			
PLN111	Comparative Planning Theory	8	2
PLN112	Concentration Studies	8	2
PLN113	Option Projects	12	3
PLN114	Applied Research Techniques	4	1
PLN115	Metropolitan Planning Practice & Law	16	3

Year 1, Semester 2

PLN121	Planning Thesis	24	2
PLN122	Professional Seminars	8	2
PLN123	Planning in Developing Countries	8	2
PLN124	Option Course	8	2

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
PLN111	Comparative Planning Theory	8	2
PLN115	Metropolitan Planning Practice & Law	16	3

Year 1, Semester 2

PLN122	Professional Seminars	8	2
PLN123	Planning in Developing Countries	8	2
PLN124	Option Course	8	2

Year 2, Semester 1

PLN112	Concentration Studies	8	2
PLN113	Option Projects	12	3
PLN114	Applied Research Techniques	4	1

Year 2, Semester 2

PLN121	Planning Thesis	24	2
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LANDSCAPE ARCHITECTURE MAJOR

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Coordinator for Landscape Architecture Major: Mr Danny O'Hare

Entry Requirements

Applicants for admission shall:

- (i) hold the Graduate Diploma in Landscape Architecture from QUT with a grade point average of 5 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.

Full-Time Course Structure*

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
IFN001	Advanced Information Retrieval Skills	4	1
PLN250	Masters Studio	12	3
PLN251	Advanced Practice 1	4	1
PLN253	Practice Seminar	4	1
PLN257	Research Method AND	4	1
PLN255	Concentration Studies A	4	1
PLN256	Concentration Studies B	8	2
	Elective Unit	8	2
	OR		
	Elective Units which may include one or more of the above totalling	20	5

Year 1, Semester 2

PLN252	Advanced Practice 2	8	2
PLN254	Professional Seminars	8	2
PLN258	Dissertation	24	6
	Elective Unit	8	2

Part-Time Course Structure*

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
IFN001	Advanced Information Retrieval Skills	4	1
PLN250	Masters Studio	12	3
PLN251	Advanced Practice 1	4	1
PLN255	Concentration Studies A	4	1
	OR		
	Elective Unit/s totalling	4	1
Year 1, Semester 2			
PLN252	Advanced Practice 2	8	2
PLN254	Professional Seminars AND	8	2
PLN256	Concentration Studies B	8	2
	OR		
	Elective Unit/s totalling	8	2

Year 2, Semester 1

PLN253	Practice Seminar	4	1
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* 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.

PLN257	Research Method AND	4	1
PLN255	Concentration Studies A	4	1
	OR		
PLN256	Concentration Studies B	8	2
	OR		
	Elective Unit	8	2
	OR		
	Elective Units which may include one or more of the above totalling	16	4

Year 2, Semester 2

PLN258	Dissertation	24	6
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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

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 or better.

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 Building Project Management and Property Development. These areas are available as specialisations within the masters degree program.

BUILDING 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 1	6	2

Year 1, Semester 2

CNP414	Time Management 2	6	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

Year 2, Semester 1

CNN441	Dissertation	48	4
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Part-Time Course Structure

**Credit
Points**

**Contact
Hrs/Wk**

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

CNP414	Time Management 2	6	2
CNP429/2	Cost Management & Economics	6	2
CNP431/2	Project Management	6	2
CNP437	Field Trip	12	5 days

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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**BUILT
ENVIRONMENT
& ENGINEERING**

PROPERTY DEVELOPMENT SPECIALISATION
Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
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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Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
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

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Coordinator for Urban Design Major: Mr Danny O'Hare

Entry Requirements

NORMAL ENTRY

A grade point average of 5 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.

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 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.

Full-Time Course Structure*

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
IFN001	Advanced Information Retrieval Skills	4	1
PLN101	Urban Design Analysis Studio	12	3
PLN103	Urban Design Conjecture Studio	12	3
PLN105	Urban Design Field Studies	4	10 days
PLN114	Applied Research Techniques	4	1
PLN201	History of Urban Systems	4	1
PLN204	Urban Design Theory & Criticism	4	1
Plus a selection from the following totalling at least 4 credit points:			
CNP439	Property Management	6	2
PLN402	Law & Legislation in Urban Design	4	1

* 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.

PLP216	Computer Aided Data Analysis	2	1
PLP511	Environmental Psychology	4	2

Year 1, Semester 2

PLN102	Urban Design Context Studio	12	3
PLN501	Dissertation	24	

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

PLN255	Concentration Studies A	4	1
PLN256	Concentration Studies B	8	2
PLN302	Urban Landscape	4	1
PLN304	Urban Services & Functions	4	1
PLN401	Computer Applications in Urban Design	4	1
PLP505	Conservation Theory	3	1
	Elective Unit/s		

Part-Time Course Structure*

Year 1, Semester 1

IFN001	Advanced Information Retrieval Skills	4	1
PLN101	Urban Design Analysis Studio	12	3
PLN201	History of Urban Systems	4	1
PLN204	Urban Design Theory & Criticism	4	1

Year 1, Semester 2

PLN102	Urban Design Context Studio	12	3
PLN105	Urban Design Field Studies	4	10 days
PLN114	Applied Research Techniques	4	1

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

PLN302	Urban Landscape	4	1
PLN304	Urban Services & Functions	4	1
PLN401	Computer Applications in Urban Design	4	1
PLP216	Computer Aided Data Analysis	2	1
PLP505	Conservation Theory	3	1

Year 2, Semester 1

PLN103	Urban Design Conjecture Studio	12	3
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With a selection of the following totalling a minimum of 12 credit points:

CNP439	Property Management	6	2
PLN402	Law & Legislation in Urban Design	4	1
PLP216	Computer Aided Data Analysis	2	1
PLP511	Environmental Psychology	4	2

Year 2, Semester 2

PLN501	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;

* *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.*

- ☐ 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 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 they are to undertake an appropriate qualifying program; or
- ☐ a graduate student if they are 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 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 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;

* Pending satisfactory completion of the qualifying program provisional status will be applied to the candidate.

- ☐ 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 one year 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 limits on the length of time for which it will fund a faculty for full-time research masters degree candidates, as two years.

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 No 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 their thesis through the Principal Supervisor.

7.4 The thesis shall comply with the following requirements:

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

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

8.4 On receipt of the reports from the examiners, the Faculty Research Committee shall:

- (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 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 (GPA) of at least 5 after completion of at least 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.

Course Structure		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	Project A* AND	36	9
	Units chosen from major totalling 12 credit points	12	
	OR		
CEP998	Project B* AND	20	5
	Units chosen from major totalling 28 credit points	28	
ENVIRONMENTAL ENGINEERING MAJOR (EVN)			
CEP172	Water Quality Engineering+	8	2
CEP277	Waste Management#	12	3
CEP290	Environmental Law & Assessment**	8	2
Choose remaining units from:			
CEP174	Public Health Engineering Practice++	12	3
CEP276	Advanced Treatment Processes**	8	2
CEP128	Municipal Engineering Planning+	12	3
CEP310	Urban Transportation Planning#	8	2
CEP361	Drainage Engineering**	8	2
CHP691	Environmental Chemistry#	8	2
LOCAL GOVERNMENT ENGINEERING MAJOR (LGN)			
CEP107	Construction Management & Economics++	8	2
CEP127	Road & Traffic Engineering++	12	3
CEP128	Municipal Engineering Planning#	12	3
Choose remaining units from:			
CEP109	Municipal Law & Regulations+	8	2
CEP290	Environmental Law & Assessment++	8	2
CEP361	Drainage Engineering**	8	2
PUBLIC HEALTH ENGINEERING MAJOR (PHN)			
CEP172	Water Quality Engineering+	8	2
CEP174	Public Health Engineering Practice++	12	3
CEP276	Advanced Treatment Processes**	8	2
CEP277	Waste Management#	12	3
Choose remaining units from any other major.			
TRANSPORTATION ENGINEERING MAJOR (TRN)			
CEP127	Road & Traffic Engineering++	12	3
CEP215	Advanced Traffic Engineering**	8	2
CEP218	Transportation Engineering+	12	3

* Unit extends over two semesters.

+ Offered in even years, Semester 1.

Offered in even years, Semester 2.

** Offered in odd years, Semester 1.

++ Offered in odd years, Semester 2.

Choose remaining units from:

CEP310	Urban Transportation Planning*
CEP361	Drainage Engineering+

8	2
8	2

Choose extra units from any other major.

■ Master of Engineering Science (Computer 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: Dr Sridha Sridharan

Entry Requirements

- A Bachelor's degree in Engineering with at least second class honours; or
- Students in possession of a Bachelor's degree in Engineering may transfer from the Graduate Diploma in Computer Engineering with a grade point average of at least 5 (credit level) at the end of the first part-time year.
- Graduates from the previous Graduate Diplomas in Automatic Control or Computer Controlled Systems or the Graduate Diploma in Computer Engineering with a grade point average of 5 or greater and with a Bachelor's degree in Engineering can complete the Master of Engineering Science by completing the research project and thesis.

Methods of Assessment

The course is assessed 50 per cent by coursework and 50 per cent by thesis.

The coursework consists of the four compulsory units of the Graduate Diploma in Computer Engineering. Assessment of these units usually includes a written formal examination and may include formal assignments in problem solving and design, formal laboratory reports, construction of computer programs, individual laboratory investigation/project, oral examinations, dissertations.

The thesis must be examined and accepted by one internal and one external examiner.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
EEP102	Unix & C for Engineering	12	3
EEP104	Real-Time Operating Systems	12	3
EEP300/1	Research Project	24	
Year 1, Semester 2			
EEP101	Algorithms for Control & Signal Processing	12	3
EEP103	Computer Hardware & Interfacing	12	3
EEP300/2	Research Project	24	

* Offered in even years, Semester 2.

+ Offered in odd years, Semester 1.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
EEP102	Unix & C for Engineering	12	3
EEP104	Real-Time Operating Systems	12	3
Year 1, Semester 2			
EEP101	Algorithms for Control & Signal Processing	12	3
EEP103	Computer Hardware & Interfacing	12	3
Year 2, Semester 1			
EEP300/1	Research Project	24	
Year 2, Semester 2			
EEP300/2	Research Project	24	

■ 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

- A Bachelor's degree in Engineering (or its equivalent) with honours; or
- 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 or better; or
- 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			
MNN110	Management for Engineers	12	3
MEN170	Systems Modelling & Simulation	12	3
MEN190	Project	12	3

MEN140	Reliability and Maintenance Optimisation*	12	3
MEN171	Advanced Manufacturing Technologies+	12	3

Semester 2

ACN822	Managerial Accounting for Engineers	12	3
MEN190/2	Project	12	3
MEN280	Engineering Project Management	12	3
MEN270	Manufacturing Resource Planning+ OR	12	3
MEN240	Maintenance Management and Technology*	12	3

Part-Time Course Structure

Credit Points **Contact Hrs/Wk**

Year 1, Semester 1

MEN170	Systems Modelling and Simulation	12	3
MNN110	Management for Engineers	12	3

Year 1, Semester 2

FNN113	Managerial Accounting for Engineers	12	3
MEN171	Advanced Manufacturing Technologies# OR	12	3
MEN140	Reliability and Maintenance Optimisation+	12	3

Year 2, Semester 1

MEN280	Engineering Project Management	12	3
MEN270	Manufacturing Resource Planning# OR	12	3
MEN240	Maintenance Management & Technology+	12	3

Year 2, Semester 2

MEN190	Project	24	6
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■ Graduate Diploma in Computer Engineering (EE65)

Location: Gardens Point campus

Course Duration: 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

EEP102	Unix & C for Engineering	12	3
EEP104	Real-Time Operating Systems	12	3

* For students specialising in plant maintenance.

+ For students specialising in manufacturing systems engineering.

For students specialising in plant maintenance

Year 1, Semester 2

EEP101	Algorithms for Control & Signal Processing	12	3
EEP103	Computer Hardware & Interfacing	12	3

Year 2, Semester 1 – Elective Units*

Select two units from the following three:

EEP122	Graphics & Computer Vision	12	3
EEP123	Process Control & Robotics	12	3
EEP124	Data Communications	12	3

Year 2, Semester 2 – Elective Units*

Select two units from the following three:

EEP120	Networks & Distributed Computing	12	3
EEP121	Parallel & Super Computing	12	3
EEP125	Advanced Engineering Software Tools	12	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 upon 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 CAD for Industrial Designers 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

* The School reserves the right to cancel any Elective Unit which has insufficient enrolment.

ARP675	Industrial Design Research 2	20	8
ARP677	Advanced CAD for Industrial Designers 2	4	2

Part-Time Course Structure

Credit Points **Contact Hrs/Wk**

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 CAD for Industrial Designers 1	4	2

Year 1, Semester 2

ARP623	Advanced Ergonomics 2	4	2
ARP673	Industrial Design 2	16	6
ARP677	Advanced CAD for Industrial Designers 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:

- hold an approved degree or diploma from a recognised tertiary institution; and
- have attained professional recognition by an equivalent course of study or examination.

Professional Recognition

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

Full-Time Course Structure

Credit Points **Contact Hrs/Wk**

Semester 1

ARP502	Environmental Communications	18	7
ARP504	Professional Practice & Management for Interior Designers 1	10	3
ARP506	Brief Development	8	2
ARP601	Setting the Scene	12	4

Semester 2

ARP503	Workplace Design	18	6
ARP505	Professional Practice & Management for Interior Designers 2	6	2
ARP604	Conservation of Historic Interiors	16	6
ARP605	Building Evaluation	8	2

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

ARP502	Environmental Communications	18	7
ARP504	Professional Practice & Management for Interior Designers 1	10	3

Year 1, Semester 2

ARP503	Workplace Design	18	6
ARP505	Professional Practice & Management for Interior Designers 2	6	2

Year 2, Semester 1

ARP506	Brief Development	8	2
ARP601	Setting the Scene	12	4

Year 2, Semester 2

ARP604	Conservation of Historic Interiors	16	6
ARP605	Building Evaluation	8	2

■ Graduate Diploma in Landscape Architecture (PL66)**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

PLP503	History of Landscape Design	3	2
PLP505	Conservation Theory	3	1
PLP506	User & Character Design Studies	12	6
PLP516	Landscape Graphics 1	6	3
PLP521	Map & Air Photo Interpretation	3	1
PLP523	Landscape Construction 1	9	4
PLP525	Introduction to Practice 1	6	3
PLP527	Landscape Ecology 1	6	4

Year 1, Semester 2

PLP504	Planting Design	3	1
PLP507	Site Planning	12	4
PLP514	Landscape Ecology 2	9	3
PLP515	Impacts & Assessment	3	2
PLP520	Landscape Graphics 2	6	2
PLP524	Landscape Construction 2	9	3
PLP526	Introduction to Practice 2	6	3

Year 2, Semester 1

PLP202	Residential Landscape Design	12	3
PLP203	Urban Landscape Design	12	3
PLP210	Landscape Management A	6	4
PLP212	Advanced Landscape Graphics	6	2
PLP218	Advanced Landscape Construction 1	6	3
PLP221	Landscape Practice 1	6	2

Year 2, Semester 2

PLP204	Landscape Planning	12	4
PLP205	Landscape Design	18	5
PLP215	School Field Trip	3	7-10 days
PLP219	Advanced Landscape Construction 2	6	3
PLP220	Landscape Management B	6	4
PLP222	Landscape Practice 2	3	2

Part-Time Course Structure

**Credit
Points**

**Contact
Hrs/Wk**

Year 1, Semester 1

PLP503	History of Landscape Design	3	2
PLP516	Landscape Graphics 1	6	3
PLP521	Map & Air Photo Interpretation	3	1
PLP525	Introduction to Practice 1	6	3
PLP527	Landscape Ecology 1	6	4

Year 1, Semester 2

PLP504	Planting Design	3	1
PLP514	Landscape Ecology 2	9	3
PLP520	Landscape Graphics 2	6	2
PLP526	Introduction to Practice 2	6	3

Year 2, Semester 1

PLP505	Conservation Theory	3	1
PLP506	User & Character Design Studies	12	6
PLP523	Landscape Construction 1	9	4

Year 2, Semester 2

PLP507	Site Planning	12	4
PLP515	Impacts & Assessment	3	2
PLP524	Landscape Construction 2	9	3

Year 3, Semester 1

PLP202	Residential Landscape Design	12	3
PLP212	Advanced Landscape Graphics	6	2
PLP218	Advanced Landscape Construction 1	6	3

Year 3, Semester 2

PLP204	Landscape Planning	12	4
PLP219	Advanced Landscape Construction 2	6	3
PLP220	Landscape Management B	6	4

Year 4, Semester 1

PLP203	Urban Landscape Design	12	3
PLP210	Landscape Management A	6	4
PLP221	Landscape Practice 1	6	2

Year 4, Semester 2

PLP205	Landscape Design	18	5
PLP215	School Field Trip	3	7-10 days
PLP222	Landscape Practice 2	3	2

■ 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) course (CE74).

Students may transfer from the Graduate Diploma in Municipal Engineering to the Master of Engineering Science (Civil) providing that they have obtained a grade point average of at least 5 after completion of at least 50% 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
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Year 1, Semester 1

CEP128	Municipal Engineering Planning	12	3
CEP131	Engineering Management & Administration	12	3

Year 1, Semester 2

CEP200	Process Modelling	8	2
CEP361	Drainage Engineering	8	2
	One Unit from chosen major	8	2

Year 2, Semester 1

Units chosen from major	24	6
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Year 2, Semester 2

Units chosen from major	24	6
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ENVIRONMENTAL ENGINEERING MAJOR (EVN)

CEP172	Water Quality Engineering*	8	2
CEP174	Public Health Engineering Practice+	12	3
CEP276	Advanced Treatment Processes#	8	2
CEP277	Waste Management**	12	3
CEP290	Environmental Law & Assessment#	8	2
CHP691	Environmental Chemistry**	8	2

LOCAL GOVERNMENT ENGINEERING MAJOR (LGN)

CEP107	Construction Management & Economics+	8	2
CEP109	Municipal Law & Regulations#	8	2
CEP127	Road & Traffic Engineering+	12	3
CEP174	Public Health Engineering Practice+	12	3

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

PUBLIC HEALTH ENGINEERING MAJOR (PHN)

CEP172	Water Quality Engineering*	8	2
CEP174	Public Health Engineering Practice+	12	3
CEP276	Advanced Treatment Processes#	8	2
CEP277	Waste Management**	12	3

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

TRANSPORTATION ENGINEERING MAJOR (TRN)

CEP127	Road & Traffic Engineering+	12	3
CEP215	Advanced Traffic Engineering#	8	2
CEP218	Transportation Engineering*	12	3
CEP310	Urban Transportation Planning**	8	2

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

* Offered in even years, Semester 1.

+ Offered in odd years, Semester 1.

Offered in odd years, Semester 2.

** Offered in even years, Semester 2.

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

■ 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:

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

BUILDING 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

CNP414	Time Management 2	6	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

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
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

CNP414	Time Management 2	6	2
CNP429/2	Cost Management & Economics	6	2

CNP431/2	Project Management	6	2
CNP437	Field Trip	12	5 days

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

**Credit
Points** **Contact
Hrs/Wk**

Year 1, Semester 1

CNP422	Specialist Valuation	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

Part-Time Course Structure

**Credit
Points** **Contact
Hrs/Wk**

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 (SV68)

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: To be advised

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.

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.

Course Structure		Credit Points	Total Student Contact Hrs
Semester 1			
SVP111	Cadastral Surveying 1	26	356
SVP112	Survey Computing	3	47
SVP113	Office Operations	7	90
SVP114	Practice Law	2	30
SVP115	Professional Practice	1	8
SVP116	Survey Project Management	7	100
Semester 2			
SVP211	Cadastral Surveying 2	18	247
SVP212	Building Control Surveys	3	38
SVP213	Detail Surveys	2	30
SVP214	Mapping	6	76
SVP215	Innovations & Systems Developments	2	22
SVP216	Surveys for Government	3	38
SVP217	Engineering Surveying	16	210

■ Graduate Diploma in Urban and Regional Planning (PL67)

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:

- hold a degree or diploma from a recognised tertiary institution; or
- have attained professional recognition by an equivalent course of study or examination.

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 (except for PLP560 History of Planning). 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.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
COP115	Professional Communication	4	2
PLP550	Planning Processes	8	2
PLP553	Site Planning Methods	8	2
PLP554	Site Planning Practice & Law	12	4
PLP557	Transport Planning	8	2
PLP562	Economics of Town Planning	8	2
PLP564	Introduction to Maps & Air Photos	4	1
Year 1, Semester 2			
ISB183	Introduction to Computers in Planning	4	1
PLP558	Population & Urban Studies	8	3
PLP559	Environmental Impacts	4	2
PLP560	History of Planning	4	1
PLP561	Urban Design Methods	4	1
PLP565	Urban Land Development	4	1
PLP566	Housing & Community Services	8	2
PLP567	Urban Design Practice	12	3
Year 2, Semester 1			
PLP401	Rural Land Use & Planning	4	1
PLP404	Theories for Planning	8	2
PLP407	Urban Policy Processes	8	2
PLP411	Planning Practice & Law (Urban)	12	4
PLP413	Regional Planning Methods	4	1
PLP414	Resource Management	8	2
PLP418	Computer Applications in Planning	4	2
Year 2, Semester 2			
PLP402	Social Planning	4	1
PLP405	Procedural Planning Theory	4	1
PLP406	Professional Procedures & Ethics	4	1

PLP412	Planning Practice & Law (Regional & Strategic)	12	4
PLP415	Research Methods & Individual Project	12	2
PLP416	Urban Policy Implementation	4	1
PLP420	School Field Trip	4	7-10 days

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

COP115	Professional Communication	4	2
PLP550	Planning Processes	8	2
PLP553	Site Planning Methods	8	2
PLP554	Site Planning Practice & Law	12	4

Year 1, Semester 2

ISB183	Introduction to Computers in Planning	4	1
PLP558	Population & Urban Studies	8	3
PLP560	History of Planning	4	1
PLP561	Urban Design Methods	4	1
PLP567	Urban Design Practice	12	3

Year 2, Semester 1

PLP404	Theories for Planning	8	2
PLP418	Computer Applications in Planning	4	2
PLP557	Transport Planning	8	2
PLP562	Economics of Town Planning	8	2
PLP564	Introduction to Maps & Air Photos	4	1

Year 2, Semester 2

PLP402	Social Planning	4	1
PLP405	Procedural Planning Theory	4	1
PLP420	School Field Trip	4	
PLP559	Environmental Impacts	4	2
PLP565	Urban Land Development	4	1
PLP566	Housing and Community Services	8	2

Year 3, Semester 1

PLP401	Rural Land Use & Planning	4	1
PLP407	Urban Policy Processes	8	2
PLP411	Planning Practice & Law (Urban)	12	4
PLP413	Regional Planning Methods	4	1

Year 3, Semester 2

PLP406	Professional Procedures & Ethics	4	1
PLP412	Planning Practice & Law (Regional & Strategic)	12	4
PLP415	Research Methods & Individual Project*		
PLP416	Urban Policy Implementation	4	1

Year 4, Semester 1

PLP414	Resource Management	8	2
PLP415	Research Methods & Individual Project	12	2

■ Graduate Diploma in Urban Design (PL69)

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

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

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 or better and demonstrated potential in a relevant professional activity, or a relevant graduate diploma with a grade point average of 5 or better, or a qualifying program with a grade point average of 5 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 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 or better in the course is normally required for progression to the masters level.

Focus in the Graduate Diploma

The Graduate Diploma focuses on skills and knowledge development through set coursework and elective coursework.

Full-Time Course Structure*

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
IFN001	Advanced Information Retrieval Skills	4	1
PLN101	Urban Design Analysis Studio	12	3
PLN103	Urban Design Conjecture Studio	12	3
PLN105	Urban Design Field Studies	4	10 days
PLN114	Applied Research Techniques	4	1
PLN201	History of Urban Systems	4	1
PLN204	Urban Design Theory and Criticism	4	1
Plus a selection from the following totalling at least 4 credit points:			
CNP439	Property Management	6	2
PLN402	Law and Legislation in Urban Design	4	1
PLP216	Computer Aided Data Analysis	2	1
PLP511	Environmental Psychology	4	2

Year 1, Semester 2

PLN102	Urban Design Context Studio	12	3
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Plus any of the following totalling at least 36 credit points:

PLN255	Concentration Studies A	4	1
PLN256	Concentration Studies B	8	2
PLN302	Urban Landscape	4	1
PLN304	Urban Services and Functions	4	1
PLN401	Computer Applications in Urban Design	4	1
PLP505	Conservation Theory	3	1
	Elective Unit/s		

Part-Time Course Structure*

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
IFN001	Advanced Information Retrieval Skills	4	1
PLN101	Urban Design Analysis Studio	12	3
PLN201	History of Urban Systems	4	1
PLN204	Urban Design Theory and Criticism	4	1

* 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.

Year 1, Semester 2

PLN102	Urban Design Context Studio	12	3
PLN105	Urban Design Field Studies	4	10 days
PLN114	Applied Research Techniques	4	1

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

PLN302	Urban Landscape	4	1
PLN304	Urban Services and Functions	4	1
PLN401	Computer Applications in Urban Design	4	1
PLP216	Computer Aided Data Analysis	2	1
PLP505	Conservation Theory	3	1

Year 2, Semester 1

PLN103	Urban Design Conjecture Studio	12	3
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With a selection of the following totalling a minimum of 12 credit points:

CNP439	Property Management	6	2
PLN402	Law and Legislation in Urban Design	4	1
PLP216	Computer Aided Data Analysis	2	1
PLP511	Environmental Psychology	4	2

Year 2, Semester 2

Any of the following totalling at least 24 credit points:

PLN255	Concentration Studies A	4	1
PLN256	Concentration Studies B	8	2
PLN302	Urban Landscape	4	1
PLN304	Urban Services and Functions	4	1
PLN401	Computer Applications in Urban Design	4	1
PLP505	Conservation Theory	3	1
Elective Unit/s			

■ Graduate Certificate in Architectural Practice (AR80)

Location: Gardens Point campus

Course Duration: 1 year part-time

Total Credit Points: 48

Standard Credit Points/Part-Time Semester: 24

Course Coordinator: Mr Dan Nutter

Entry Requirements

An applicant must:

- hold a professional degree or professional diploma in architecture from a recognised University, College of Advanced Education, or approved equivalent tertiary institution; or
- have gained professional recognition in architecture or an allied profession by an equivalent course of study or examination.

Where an equivalent course of study or examination cannot be readily established an applicant, at the discretion of the Head of School, may be recommended for special entry. This type of entry may depend collectively on such factors as the applicant's qualifications, background, experience and current employment.

Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
ARP151	Architectural Practice	12	2
ARP153	Legal Studies in Architecture	12	2
Semester 2			
ARP152	Architectural Administration	12	2
ARP154	Architectural Cost Planning	12	2

Note: Each unit has a one-day workshop of six hours duration.

■ Graduate Certificate in Project Development (CN81)

With Specialisations in Construction Management, Property Development, Property Economics, and Project Management

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 complete a further 48 credit points in the same discipline with the guidance and approval of the course coordinator and be granted a 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 only be run if there is sufficient demand and will be self funding from fees charged.

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 and Construction	4	2
CNP426/1 Project Development	6	2
CNP429/1 Cost Management and 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		
CNP414 Time Management 2	6	2
CNP426/2 Project Development	6	2
CNP429/2 Cost Management and 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

PROPERTY DEVELOPMENT SPECIALISATION

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

	Credit Points	Contact Hrs/Wk
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:

	Credit Points	Contact Hrs/Wk
Semester 1		
CNP439 Property Management	6	2
CNP422 Specialist Valuations	6	2
CNP430/1 Current Issues	9	3
CNP426/1 Project Development	6	2
CNB668 Law 6 - Valuation of Land	4	2
CNP438/1 Real Estate Investment Analysis	6	2
CNP431/1 Project Management	6	2

Semester 2

CNB626	Land Development Studies	4	2
CNB471	Law 7 - Property Practice	6	2.5
CNB472	Property Taxation Issues	7	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
CNB564	Valuation 7	8	3
CNP667	Applied Computing	6	2

PROJECT MANAGEMENT SPECIALISATION

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

		Credit Points	Contact Hrs/Wk
Semester 1			
CNP417	Design Management	6	2
CNP426/1	Project Development	6	2
CNP429/1	Cost Management and 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

CNP414	Time Management 2	6	2
CNP426/2	Project Development	6	2
CNP429/2	Cost Management and 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

It should also be noted that a Graduate Certificate in Project Development with no specialisation can be taken by enrolling in 48 credit points from the following list:

		Credit Points	Contact Hrs/Wk
Semester 1			
CNB601	Formwork Design and Construction	4	2
CNB668	Law 6 - Valuation of Land	4	2
CNP417	Design Management	6	2
CNP422	Specialist Valuations	6	2
CNP426/1	Project Development	6	2
CNP429/1	Cost Management and 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
CNP438/1	Real Estate Investment Analysis	6	2
CNP439	Property Management	6	2

Semester 2

CNB471	Law 7 - Property Practice	6	2.5
CNB472	Property Taxation Issues	7	2
CNB564	Valuation 7	8	3
CNB626	Land Development Studies	4	2
CNP414	Time Management 2	6	2
CNP426/2	Project Development	6	2
CNP429/2	Cost Management and 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.

■ **Bachelor of Built Environment (Architectural Studies),
Bachelor of Built Environment (Industrial Design),
Bachelor of Built Environment (Interior Design),
Bachelor of Built Environment (Landscape Architecture),
Bachelor of Built Environment (Urban and Regional
Planning) (BN30)**

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: To be advised

Majors Coordinators:

Architectural Studies – Associate Professor Gordon Holden

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 remaining three years of the part-time course, during which time students have been employed in an approved professional practice, 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.

Full-Time Course Structure

**Credit
Points**

**Contact
Hrs/Wk**

ARCHITECTURAL STUDIES MAJOR

Year 1, Semester 1

ARB102	History of the Built Environment 1	6	3
ARB140	Introductory Design 1	12	8
ARB141	The Human Environment 1	4	2
ARB142	Technology 1	8	4
BNB001	Learning at University	2	1
COB163	Professional Writing	6	1.5
MAB181	Applied Mathematics for Designers 1	6	3
PLB113	Environmental Science	4	2

Year 1, Semester 2

ARB200	Introductory Design 2	20	10
ARB201	The Human Environment 2	6	2
ARB241	History of the Built Environment 2	8	3
ARB242	Technology 2	10	5
PLB209	Applied Land Science for Designers	4	1

Year 2, Semester 1

ARB289	Design Science 1	2	1
ARB299	Introduction to Computing 1	2	1
ARB340	Architectural Design 1	18	8
ARB341	Building Construction 1	14	5
ARB343	Visual Communication for Architects 1	4	2
CEB359	Principles of Structures 1	2	1
PLB301	The Human Environment 3	6	3

Year 2, Semester 2

ARB288	Design Science 2	2	1
ARB290	Introduction to Computing 2	2	1
ARB440	Architectural Design 2	16	6
ARB441	Building Construction 2	15	5
ARB443	Visual Communication for Architects 2	4	2
CEB459	Principles of Structures 2	4	2
PLB401	The Human Environment 4	4	2

Year 3, Semester 1

ARB389	Design Science 3	4	2
ARB391	Building Services 1	4	1.5
ARB540	Architectural Design 3	20	7
ARB541	Building Construction 3	15	5.5
ARB544	Landscape Architecture in the Built Environment*	2	1
CEB559	Principles of Structures 3	3	2

* Upon application students will be exempted from ARB544 if they have completed ARB444 Environmental Impact.

Year 3, Semester 2

ARB388	Design Science 4	2	1
ARB392	Building Services 2	3	1.5
ARB640	Architectural Design 4	20	7
ARB641	Building Construction 4	15	5.5
ARB646	Law of the Built Environment	4	2
CEB659	Principles of Structures 4	4	2

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

ARB102	History of the Built Environment 1	6	3
ARB140	Introductory Design 1	12	8
ARB141	The Human Environment 1	4	2
ARB151	Introduction to Technology	2	1
BNB001	Learning at University	2	1
COB163	Professional Writing	6	1.5
MAB181	Applied Mathematics for Designers 1	6	3
PHB144	Applied Science for Designers 1	6	3
PLB113	Environmental Science	4	2

Year 1, Semester 2

ARB200	Introductory Design 2	20	10
ARB201	The Human Environment 2	6	2
ARB241	History of the Built Environment 2	8	3
ARB251	Ergonomics for Industrial Designers 1	4	2
CHB292	Applied Science for Designers 2	4	2
MAB196	Quantitative Methods 2	6	3

Year 2, Semester 1

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	12	6
ARB354	CAD for Industrial Designers 1	4	2
PLB301	The Human Environment 3	6	3

Year 2, Semester 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	CAD for Industrial Designers 2	4	2
MEB010	Dynamics 1	4	2
PLB401	The Human Environment 4	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	6	3
ARB554	CAD for Industrial Designers 3	4	2
ARB555	Economics of Industrial Production	4	2
MEB012	Dynamics 2	4	2
MKB160	Marketing	6	1.5

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	CAD for Industrial Designers 4	6	2

INTERIOR DESIGN MAJOR

Year 1, Semester 1

ARB102	History of the Built Environment 1	6	3
ARB140	Introductory Design 1	12	8
ARB141	The Human Environment 1	4	2
ARB161	Light & Colour Studies	8	3
ARB171	Introduction to Interior Technology 1	6	2
BNB001	Learning at University	2	1
COB163	Professional Writing	6	1.5
PLB113	Environmental Science	4	2

Year 1, Semester 2

ARB200	Introductory Design 2	20	10
ARB201	The Human Environment 2	6	2
ARB241	History of the Built Environment 2	8	3
ARB271	Introduction to Interior Technology 2	14	5

Year 2, Semester 1

ARB360	Interior Design 1	18	8
ARB361	Interior Technology 1	16	6
ARB362	Furniture & Fittings 1	4	2
ARB363	Visual Communication for Interior Designers 1	4	2
PLB301	The Human Environment 3	6	3

Year 2, Semester 2

ARB444	Environmental Impact	2	1
ARB460	Interior Design 2	16	6
ARB461	Interior Technology 2	14	5
ARB462	Furniture & Fittings 2	4	2
ARB463	Visual Communication for Interior Designers 2	4	2
ARB464	Architectural Interior Systems 1	4	2
PLB401	The Human Environment 4	4	2

Year 3, Semester 1

ARB560	Interior Design 3	20	6
ARB561	Interior Technology 3	16	6
ARB562	Furniture & Fittings 3	4	2
ARB563	Visual Communication for Interior Designers 3	4	2
ARB564	Architectural Interior Systems 2	4	2

Year 3, Semester 2

ARB646	Law of the Built Environment	4	2
ARB660	Interior Design 4	20	6
ARB661	Interior Technology 4	16	6
ARB662	Furniture & Fittings 4	4	2
ARB663	Research Methods	4	2

LANDSCAPE ARCHITECTURE MAJOR

Year 1, Semester 1

BNB001	Learning at University	2	1
COB163	Professional Writing	6	1.5
MAB195	Quantitative Methods 1	6	3
PLB102	History of the Built Environment 1	6	3
PLB113	Environmental Science	4	2
PLB135	Map & Air Photo Interpretation	2	1
PLB140	Introductory Design 1	12	6
PLB141	The Human Environment 1	4	2
PHB144	Applied Science for Designers 1	6	3

Year 1, Semester 2

CHB292	Applied Science for Designers 2	4	2
MAB196	Quantitative Methods 2	6	3

PLB200	Introductory Design 2	20	10
PLB201	The Human Environment 2	6	2
PLB209	Applied Land Science for Designers	4	1
PLB241	History of the Built Environment 2	8	3

Year 2, Semester 1

PLB300	Planning & Landscape Design 1	21	9
PLB301	The Human Environment 3	6	3
PLB340	Site Measurement	4	1
PLB343	Introduction to the Professions	3	1
PLB345	Introduction to Ecology	8	4
PLB346	Graphic Communication	6	3

Year 2, Semester 2

PLB400	Planning & Landscape Design 2	20	6
PLB401	The Human Environment 4	4	2
PLB408	Design Science	4	2
PLB409	Computer Techniques	4	2
PLB411	Landscape Ecology	8	3
PLB414	Population & Urban Studies	6	3
PLB440	Introduction to Economics	2	1

Year 3, Semester 1

PLB442	Quantities & Costs	2	1
PLB500	Planning & Landscape Design 3	20	6
PLB511	Landscape Construction	6	3
PLB546	Land Development 1	8	3
PLB547	Land Use Generation	4	2
PLB562	Report Preparation	2	1
PLB565	Landscape Graphics	6	2

Year 3, Semester 2

ARB646	Law of the Built Environment	4	2
PLB600	Planning & Landscape Design 4	20	6
PLB640	Planting Design	3	1
PLB643	Issues & Ethics	2	1
PLB645	Grading	4	2
PLB647	Land Use Policies	4	2
PLB649	Conservation Theory	2	1
PLB651	Elective Unit - Landscape Architecture	4	2
PLB659	Impacts & Assessment	5	2

URBAN AND REGIONAL PLANNING MAJOR

Year 1, Semester 1

BNB001	Learning at University	2	1
COB163	Professional Writing	6	1.5
MAB195	Quantitative Methods 1	6	3
PLB102	History of the Built Environment 1	6	3
PLB113	Environmental Science	4	2
PLB135	Map & Air Photo Interpretation	2	1
PLB140	Introductory Design 1	12	6
PLB141	The Human Environment 1	4	2
PHB144	Applied Science for Designers 1	6	3

Year 1, Semester 2

CHB292	Applied Science for Designers 2	4	2
MAB196	Quantitative Methods 2	6	3
PLB200	Introductory Design 2	20	10
PLB201	The Human Environment 2	6	2
PLB209	Applied Land Science for Designers	4	1
PLB241	History of the Built Environment 2	8	3

Year 2, Semester 1

PLB300	Planning & Landscape Design 1	21	9
PLB301	The Human Environment 3	6	3
PLB340	Site Measurement	4	1
PLB343	Introduction to the Professions	3	1
PLB345	Introduction to Ecology	8	4
PLB346	Graphic Communication	6	3

Year 2, Semester 2

PLB400	Planning & Landscape Design 2	20	6
PLB401	The Human Environment 4	4	2
PLB408	Design Science	4	2
PLB409	Computer Techniques	4	2
PLB411	Landscape Ecology	8	3
PLB414	Population & Urban Studies	6	3
PLB440	Introduction to Economics	2	1

Year 3, Semester 1

PLB442	Quantities & Costs	2	1
PLB500	Planning & Landscape Design 3	20	6
PLB546	Land Development 1	8	3
PLB547	Land Use Generation	4	2
PLB561	Economics of Town Planning	3	1
PLB562	Report Preparation	2	1
PLB563	Transport Planning	5	2
PLB654	Elective (Planning)	4	2

Year 3, Semester 2

ARB646	Law of the Built Environment	4	2
PLB600	Planning & Landscape Design 4	20	6
PLB643	Issues & Ethics	2	1
PLB646	Land Development 2	7	3
PLB647	Land Use Policies	4	2
PLB649	Conservation Theory	2	1
PLB656	Housing & Community Services	4	2
PLB659	Impacts & Assessment	5	2

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

Location: Gardens Point campus

Course Duration: 6 years part-time, 2 years full-time plus 2 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 two 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
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
SSB908	Behavioural Science	6	3
SVB101	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
ISB180	Computer Applications	4	2
SVB203	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
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	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 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	4	2
	OR		
	Elective Unit*	4	
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	3	1.5
	OR		
	Elective Unit*	3	
CNB656/2	Building Research	10	5

Part-Time Course Structure

Credit Points **Contact Hrs/Wk**

Year 1, Semester 1

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

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

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
SSB908	Behavioural Science	6	3
SVB101	Surveying & Measuring	4	2

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
SVB203	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	4	2
CNB443	Building Services 3	5	2.5
CNB444	Mechanical & Electrical Estimating OR Elective Unit*	4	2
CNB601	Formwork Design & Construction	4	2

Year 4, Semester 2

CNB301	PM1 - Advanced Construction Methods	4	2
CNB343	Economics of the Construction Industry OR Elective Unit*	4	2
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 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 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

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

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

■ 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: Mr Terry Boyd

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 Requirement

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.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CNB161	Building Studies 1	14	5.5
CNB263	Valuation 1	9	4
CNB342	Law 2 - Principles & Property	3	1.5
COB163	Professional Writing	6	1.5
MAB298	Mathematics & Statistics	4	2
PLB440	Introduction to Economics	2	1
PLB663	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	Time Management	8	3

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

CNB643	Law 5 - Commercial Law	3	1.5
ISB180	Computer Applications	4	2
PLB441	Urban Planning 2	4	2

Year 2, Semester 1

CNB261	Building Studies 3	8	3
CNB363	Valuation 3	8	3
CNB367	Real Estate Accounting 1	8	3
CNB465	Property Investment Analysis 1	8	3
CNB665	Property Management 1	8	3
CNB668	Law 6 - Valuation of Land	4	2
SVB101	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
CNB466	Property Investment Analysis 2	8	3
CNB567	Real Estate Market Analysis	4	2
CNB626	Land Development Studies	4	2
CNB666	Property Management 2	8	3

Year 3, Semester 1

CNB464	Valuation 5 - Rural	8	3
CNB471	Law 7 - Property Practice Law	6	2.5
CNB561	Property Maintenance	8	3
CNB563	Statutory Valuation	8	3
CNB568	Real Estate Practice	5	2.5
CNB661	Research Dissertation 1	8	4
CNB663	Project Development Process 1	5	2

Year 3, Semester 2

CNB470	Valuation 6 - Rural	8	3
CNB472	Property Taxation Issues	7	2
CNB543	Law 4 - Torts & Arbitration	3	1.5
CNB564	Valuation 7	8	3
CNB662	Research Dissertation 2	8	4
CNB664	Project Development Process 2	6	2
CNB667	Applied Computer Techniques	8	3

Part-Time Course Structure

**Credit
Points** **Contact
Hrs/Wk**

Year 1, Semester 1

CNB161	Building Studies 1	14	5.5
MAB298	Mathematics & Statistics	4	2
PLB440	Introduction to Economics	2	1

Year 1, Semester 2

CNB162	Building Studies 2	9	3.5
CNB166	Urban Economics	4	2
CNB565	Time Management	8	3
ISB180	Computer Applications	4	2

Year 2, Semester 1

CNB261	Building Studies 3	8	3
CNB263	Valuation 1	9	4
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	8	3
CNB367	Real Estate Accounting 1	8	3
CNB668	Law 6 - Valuation of Land	4	2
PLB663	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
PLB441	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
SVB101	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	7	2
CNB543	Law 4 - Torts & Arbitrations	3	1.5

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	Law 7 - Property Practice Law	6	2.5
CNB661	Research Dissertation 1	8	4
CNB663	Project Development Process 1	5	2
CNB665	Property Management 1	8	3

Year 6, Semester 2

CNB662	Research Dissertation 2	8	4
CNB664	Project Development Process 2	6	2
CNB666	Property Management 2	8	3

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

Location: Gardens Point campus

Course Duration: 6 years part-time, 2 years full-time plus 2 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; comprising a half-day release from employment and the remaining time spread over two or three nights between 5pm and 9.30pm.

For the first two 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
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
SVB101	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
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

Credit Points **Contact Hrs/Wk**

Year 1, Semester 1

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

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

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
SVB101	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

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

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

■ Bachelor of Architecture (AR41)

Location: Gardens Point campus

Course Duration: 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Associate Professor Gordon Holden

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.

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

- (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 1, Semester 1			
ARB191	The Human Environment 1	4	2
ARB193	Design 1	8	5
ARB195	Technology 1	4	2.5
ARB197	History of Architecture & Art 1	2	1
COB163	Professional Writing	6	1.5
Year 1, Semester 2			
ARB132	The Human Environment 2	4	2
ARB194	Design 2	14	7
ARB196	Technology 2	4	2
ARB198	History of Architecture & Art 2	2	1
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 Applied Science (Surveying) (SV34)

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: To be advised

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

For successful completion of the course a student must have completed at least 18 weeks of approved employment. For the employment to be recognised, the student must first enrol in the industrial experience unit in the semester in which the unit is expected to be finalised, then submit details of the work experience on an industrial experience record form or in diaries which are certified by the employer. Should employment exceed the minimum required, it is strongly recommended that the details also be recorded in the 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 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**

Year 1, Semester 1

CSB294	Computer Programming	6	3
MAB199	Survey Mathematics 1	12	6
SVB111	Data Presentation 1	6	3
SVB121	Land Surveying 1	13	6
SVB282	Seminar 1	5	2
SVB352/1	Land Studies A	6	3

Year 1, Semester 2

MAB495	Survey Mathematics 2	12	6
MAB499	Basic Statistics for Surveyors	5	2
SVB211	Data Presentation 2	6	3
SVB226	Land Surveying 2	13	6
SVB270	Land Administration 1	6	3
SVB352/2	Land Studies A	6	3

At the end of Year 1, Semester 2, students must select either the Surveying or Cartography 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

SVB443	Photogrammetry 2	11	6
SVB470	Land Administration 2	4	2
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 & Adjustment 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			
SVB443	Photogrammetry 2	11	6
SVB470	Land Administration 2	4	2
SVB561	Land Development Practice 1	10	6
SVB563	Land Information Systems 2	4	2
SVB571	Cadastre	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
SVB634	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
Industrial Experience Units			
SVB199	Industrial Experience 1		6 weeks
SVB299	Industrial Experience 2		6 weeks
SVB399	Industrial Experience 3		6 weeks

☐ Special notes relating to Bachelor of Engineering 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. 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.

Field Trips

Field trips or field projects in Engineering courses have a compulsory attendance requirement.

Industrial Experience

A student shall have engaged in at least 15 weeks of approved employment prior to graduating. In addition, students in the Bachelor of Engineering (Aerospace Avionics) degree are required to obtain two weeks specialist experience during the first year of their course.

As a minimum requirement five weeks of any employment is suitable for credit towards Industrial Experience 1. Five weeks of employment in any engineering firm may be credited towards Industrial Experience 2, whilst the requirement for Industrial Experience 3 is that five weeks of employment must be obtained in the specialty engineering area being studied ie. civil, electrical or mechanical engineering.

Students **must enrol** in industrial experience units so that when completed they can be credited to their academic record. **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.

The student must submit an industrial experience record form which has been completed by both the student and the employer. These forms are available from the Faculty office. In addition, civil engineering students must submit written report(s) covering the experience claimed for Industrial Experience 2 and Industrial Experience 3. A booklet outlining the requirements is available from the Civil Engineering office in 'L' Block, Gardens Point campus.

■ 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: To be advised.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BNB001	Learning at University	2	1
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

* See Special Notes relating to Bachelor of Engineering courses.

+ Students who have not successfully completed CEB184 or CEB185 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.

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
EEB373	Digital Electronics Principles	6	3
EEB471	Electronics	8	3
EEB561	Analogue Communications	6	3
MAB493/1	Engineering Mathematics 2	6	3
MEB362	Thermo-Fluids	7	3

Year 2, Semester 2

EEB361	Signals & Systems	7	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
MAB493/2	Engineering Mathematics 2	6	3
MEB454	Aerodynamics 1	6	3

Year 3, Semester 1

EEB562	Transmission & Propagation	6	3
EEB580	Aerospace Design 1	6	3
EEB602	Signal Processing	6	3
EEB620	Control Systems Analysis	6	3
EEB692	Space Technology	6	3
MAB893	Engineering Mathematics 3	6	3
MEB553	Aerodynamics 2	6	3
MEB690	Aircraft Systems	6	3

Year 3, Semester 2

EEB662	Microwave & Antenna Technology	7	3
EEB680	Aerospace Design 2	6	3
EEB691	Aeronautical Computing	6	3
EEB967	Digital Communications	6	3
EEB968	Digital Signal Processing	7	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
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

Industrial Experience Units*

EEB107	Aeronautical Industrial Experience 1	2 weeks
EEB206	Industrial Experience 1	5 weeks
EEB407	Aeronautical Industrial Experience 2	5 weeks
EEB607	Aeronautical Industrial Experience 3	5 weeks

■ 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 1 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.

* See Special Notes relating to Bachelor of Engineering courses.

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

BNB001	Learning at University	2	1
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
MEB133	Materials 1	6	3
PHB232	Engineering Physics 2A	6	3
SVB306	Surveying	8	3

Year 2, Semester 1

CEB201	Steel Structures	7	3
CEB231	Concrete Technology	7	3
CEB260	Fluid Mechanics	7	3
CEB281	Strength of Materials	6	2
CEB282	Statics	2	1
CEB291	Civil Engineering Materials	7	3
ESB519	Geology for Engineers	6	3
MAB493/1	Engineering Mathematics 2	6	3

Year 2, Semester 2#

CEB202	Concrete Structures 1	6	3
CEB220	Civil Systems 1	6	3
CEB240	Soil Mechanics 1	6	3
CEB253	Structural Engineering 1	6	3
CEB312	Highway Engineering	6	3
CEB360	Hydraulic Engineering 1	6	3
CEB393	Engineering Investigation & Reporting 1	3	2
CEB404	Field Trip	3	1.5
MAB493/2	Engineering Mathematics 2	6	3

Year 3, Semester 1

CEB241	Soil Mechanics 2	7	3
CEB304/1	Civil Engineering Design 1	8	4
CEB306	Concrete Structures 2	7	3
	OR		
CEB375	Environmental Science & Technology**	7	3
CEB307	Construction Practice	6	3

* Students who have not successfully completed CEB184 or CEB185 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.

Year 2, Semester 2 includes a tutorial week during which field trips are to be taken.

** Alternative unit compulsory for the Environmental Engineering Stream.

**BUILT
ENVIRONMENT
& ENGINEERING**

CEB354	Structural Engineering 2	7	3
CEB460	Hydraulic Engineering 2	7	3
MAB893	Engineering Mathematics 3	6	3

Year 3, Semester 2

CEB304/2	Civil Engineering Design 1	8	4
CEB305	Construction Planning & Economics 1	6	3
CEB308	Construction Planning & Economics 2	4	2
CEB313	Traffic Engineering	6	3
CEB341	Geotechnical Engineering 1	6	3
CEB355	Structural Engineering 3	6	3
	OR		
CHB466	Environmental Chemistry*	6	3
CEB361	Hydrology	6	3
CEB370	Public Health Engineering 1	6	3

Year 4, Semester 1

CEB405/1	Civil Engineering Design 2	6	3
CEB406	Structural Applications	6	3
CEB422	Civil Systems 2	5	2
CEB430	Building Construction	2	1
CEB470	Public Health Engineering 2	5	3
CEB491/1	Project (Civil)	9	3
CEB492	Engineering Investigation and Reporting 2	3	1
	Two Elective Units	12	6
	OR		
CEB543	Environmental Geohydrology*		
	AND	6	3
CEB561	Coastal Engineering*	6	3

Year 4, Semester 2

CEB401	Design Project	8	3
CEB403	Professional Practice	7	2
CEB405/2	Civil Engineering Design 2	6	3
CEB491/2	Project (Civil)	9	3
	Three Elective Units	18	9
	OR		
	One Elective Unit AND		
CEB575	Environmental Impact Assessment*		
	AND	6	3
CEB570	Public Health Engineering 3*	6	3

Elective Units

FIRST SEMESTER

CEB501	Civil Engineering Practice 1	6	3
CEB505	Project Management & Administration	6	3
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

* Alternative unit compulsory for the Environmental Engineering Stream.

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

Industrial Experience Units*

CEB192	Industrial Experience 1	5 weeks
CEB292	Industrial Experience 2	5 weeks
CEB392	Industrial Experience 3	5 weeks

Part-Time Course Structure

**Credit
Points** **Contact
Hrs/Wk**

Year 1, Semester 1

CEB102	Civil Engineering 1	2	1
CEB184	Engineering Mechanics 1+	7	3
CHB002	Introduction to Engineering Chemistry#	(2)	(1)
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
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

CEB231	Concrete Technology	7	3
CEB291	Civil Engineering Materials	7	3
COB163	Professional Writing	6	1.5
CSB191	Introduction to Computing	4	2
MAB493/1	Engineering Mathematics 2	6	3

Year 2, Semester 2*

CEB253	Structural Engineering 1	6	3
CEB281	Strength of Materials	6	2
CEB282	Statics	2	1
CEB404	Field Trip	3	1.5
CSB291	Introduction to FORTRAN	4	2
MAB493/2	Engineering Mathematics 2	6	3
SVB306	Surveying	8	3

Year 3, Semester 1

CEB201	Steel Structures	7	3
CEB260	Fluid Mechanics	7	3
CEB307	Construction Practice	6	3
ESB519	Geology for Engineers	6	3
MAB893	Engineering Mathematics 3	6	3

Year 3, Semester 2

CEB202	Concrete Structures 1	6	3
CEB240	Soil Mechanics 1	6	3
CEB305	Construction Planning & Economics 1	6	3
CEB360	Hydraulic Engineering 1	6	3
CHB346	Engineering Chemistry C	4	2

* See Special Notes relating to Bachelor of Engineering courses.

+ Students who have not successfully completed CEB184 or CEB185 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 Grade 12 Chemistry. All other students must apply for an exemption from this unit.

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 and Economics 2	4	2
CEB406	Structural Applications	6	3
CEB422	Civil Systems 2	5	2
CEB430	Building Construction	2	1
	One 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
	Two Elective Units	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
	Two Elective Units	12	6
	OR		
CEB570	Public Health Engineering 3*		
	AND	6	3
CEB575	Environmental Impact Assessment*	6	3

Elective Units

Refer to Full-Time Structure.

Industrial Experience Units

Refer to Full-Time Structure.

* Alternative unit compulsory for the Environmental Engineering Stream.

■ 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: To be advised.

Professional Recognition

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

**BUILT
ENVIRONMENT
& ENGINEERING**

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BNB001	Learning at University	2	1
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			
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
EEB372	Sequential Logic	7	3
EEB471	Electronics	8	3
EEB561	Analogue Communications	6	3
MAB493/1	Engineering Mathematics 2	6	3

* See Special Notes relating to Bachelor of Engineering courses.

+ Students who have not successfully completed CEB184 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 2, Semester 2

EEB361	Signals & Systems	7	3
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
MAB493/2	Engineering Mathematics 2	6	3

Year 3, Semester 1

EEB404	Electrical Machines	6	3
EEB562	Transmission & Propagation	6	3
EEB573	Industrial Electronics	6	3
EEB587	Design 1	6	3
EEB591	Systems Programming Languages	6	3
EEB620	Control Systems Analysis	6	3
EEB661	Information Theory & Noise	6	3
	OR		
EEB553	Electrical Power Equipment	6	3
MAB893	Engineering Mathematics 3	6	3

Year 3, Semester 2

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

Year 4, Semester 1

EEB662	Microwave & Antenna Technology	7	3
	OR		
EEB652	Power Electronics	7	3
EEB789/1	Project	15	6
EEB821	Production Technology & Quality	6	3
EEB887	Design 3	6	3
EEB968	Digital Signal Processing	7	3
	OR		
EEB742	Power Systems Engineering	7	3
	One Technical Elective Unit	7	3

Year 4, Semester 2

EEB789/2	Project	15	6
EEB820	Engineering Management	8	3
EEB888	Design 4	10	3
EEB890	Advanced Information Technology Topics	8	3
	OR		
EEB741	Power Systems Analysis	8	3
	One Technical Elective Unit	7	3

General Elective Units

BNB103	General Elective	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
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
MAB895	Introduction to Cryptology	7	4
MAB896	Error Control & Data Compression Techniques	7	4
MAB920	Coding & Encryption Techniques	12	3
MAB982	Advanced Topics in Cryptology	12	4

OR

Any alternative core unit not previously completed,
or advanced unit from Computing Science.

Industrial Experience Units*

EEB206	Industrial Experience 1	5 weeks
EEB406	Industrial Experience 2	5 weeks
EEB606	Industrial Experience 3	5 weeks

Part-Time Course Structure

**Credit
Points** **Contact
Hrs/Wk**

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
EEB471	Electronics	8	3
EEB561	Analogue Communications	6	3
MAB493/1	Engineering Mathematics 2	6	3

Year 2, Semester 2

EEB202	Electromagnetics	6	3
EEB361	Signals & Systems	7	3
EEB401	Network Theory 2	6	3
MAB493/2	Engineering Mathematics 2	6	3
MEB133	Materials I	6	3

* See special notes relating to Bachelor of Engineering courses.

+ 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 3, Semester 1

CEB102	Civil Engineering 1	2	1
CEB184	Engineering Mechanics 1*	7	3
EEB302	Electrotechnology	6	3
EEB372	Sequential Logic	7	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

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	Realtime Operating Systems	6	3
EEB602	Signal Processing	6	3
EEB971	Applied Electronics	6	3
	OR		
EEB531	Electrical Power Transmission	6	3
MEB111	Dynamics	7	3

Year 5, Semester 1

EEB553	Electrical Power Equipment	6	3
	OR		
EEB661	Information Theory & Noise	6	3
EEB562	Transmission & Propagation	6	3
EEB587	Design 1	6	3
EEB821	Production Technology & Quality	6	3
EEB742	Power Systems Engineering	7	3
	OR		
EEB968	Digital Signal Processing	7	3
MEB171	Introduction to Manufacturing	2	1

Year 5, Semester 2

EEB621	Advanced Control Systems	6	3
EEB788	Design 2	8	3
EEB820	Engineering Management	8	3
EEB967	Digital Communications	6	3
	One General Elective Unit	4	2

Year 6, Semester 1

EEB662	Microwave & Antenna Technology	7	3
	OR		
EEB652	Power Electronics	7	3
EEB789	Project+	15	6
EEB887	Design 3	6	3
	One Technical Elective Unit	7	3

Year 6, Semester 2

EEB789	Project+	15	6
EEB888	Design 4	10	3

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

+ Unit extends over two semesters.

EEB890	Advanced Information Technology Topics OR	8	3
EEB741	Power Systems Analysis One Technical Elective Unit	8 7	3 3

Elective Units

Refer to the full-time course structure.

Industrial Experience Units

Refer to the full-time course structure.

■ 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
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
MAB188	Engineering Mathematics 1B	6	3
MEB101	Design 1	8	3
MEB111	Dynamics	7	3
MEB133	Materials 1	6	3

* See Special Notes relating to Bachelor of Engineering courses.

+ Students who have not successfully completed CEB184 or CEB185 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.

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
	One 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
	One 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
	One Group C Elective Unit	7	3

Year 4, Semester 1

FNB116	Financial Management for Engineers	6	3
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
	One 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
	One Group E Elective Unit	7	3

* All students must complete MEB489 and MEB408 (or MEB409).

Elective Units

GROUP A			
BNB103	General Elective	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

Industrial Experience Units*

MEB200	Industrial Experience 1	5 weeks
MEB300	Industrial Experience 2	5 weeks
MEB402	Industrial Experience 3	5 weeks

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
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

* See Special Notes relating to Bachelor of Engineering courses.

+ Students who have not successfully completed CEB184 or CEB185 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.

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
	One 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
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
	One 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
	One Group C Elective Unit	7	3
Year 6, Semester 1			
MEB409	Project 2*+	7	3
MEB489	Mechanical Design Project*+	7	3
MEB710	Automation 2	6	3
MEB771	Industrial Engineering 2	6	3
	One Group D Elective Unit	7	3

* Unit extends over two semesters.

+ All students must complete MEB489 and MEB408 (or MEB409).

Year 6, Semester 2

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

Elective Units

Refer to the full-time course structure.

Industrial Experience Units

Refer to the full-time course structure.

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

Location: Gardens Point campus

Course Duration: 3 years part-time

Total Credit Points: 127

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			
MAB185	Introduction to Statistics	8	3
MEB230	Materials 2	6	3
MEB313	Mechanics 1	6	3
MAB183	Mathematics 1#	(8)	(3)
Year 1, Semester 2			
MEB101	Design 1	8	3
MAB184	Mathematics 2*	(8)	(3)
MEB251	Thermodynamics 2	6	3
MEB462	Fluids 2	6	3
Year 2, Semester 1			
HRB148	Managing People at Work (not offered until 1994)	8	2
MEB773	Design for Manufacturing 1	7	3
MEB674	Industrial Engineering	8	3

* All students must complete MEB489 and MEB408 (or MEB409).

+ Unit extends over two semesters.

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

HRB149	Human Resources and Industrial Relations (not offered until 1994)	8	2
MAB186	Mathematics 3	8	3
MEB472	Manufacturing Systems 2	6	3

Year 3, Semester 1

MEB463	Tribology	6	3
MEB501/1	Project	8	3
	One Group A Elective Unit	Credit points will vary	

Year 3, Semester 2

MEB740	Maintenance Management and Technology	6	3
MEB501/2	Project	8	3
	One Group B Elective Unit	Credit points will vary	

Elective Units**GROUP A**

MEB450	Air Conditioning	7	3
MEB660	Fluid Power	6	3
MEB973	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**Course Coordinator:** To be advised**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 3, Semester 1

SVT343	Photogrammetry 2	8	3
SVT511	CAD Systems	8	3
SVT513	Digital Mapping	8	3

Year 3, Semester 2

COX107	Seminar	4	1.5
SVT623	Project Mapping	4	1.5
SVT642	Map Projections 1	8	3
SVT443	Photogrammetry 3	8	3

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, membership of the Society of Engineering Associates and of the Institute for Drafting and Design, Australia.

Note: 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.

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	3
CET195	Civil Engineering	7	3
CET815	Road Location & Design	7	3
CET894	Computations A	3	3
MET120	Engineering Drawing 1	7	3
SVT306	Engineering Surveying	7	3
Year 1, Semester 2			
CET190	Civil Engineering Materials	7	3
CET235	Laboratory Practice A	3	3
CET255	Structural Mechanics	7	3
CET286	Civil Office Practice	7	3
CET287	Civil Office Practice A	3	3
CET365	Hydraulic Engineering	7	3
CET435	Concrete Practice	7	3
CET645	Soil Mechanics	7	3
Year 2, Semester 1			
CET306	Field Practice 1A	3	3
CET387	Civil Engineering Drafting A	3	3

CET565	Road & Drainage Engineering	7	3
CET585	Civil Engineering Drafting	7	3
CET756	Building Construction Practice	7	3
CET775	Public Health Engineering	7	3
	One List B1 Elective Unit	7	3
	One List B2 Elective Unit	7	3

Year 2, Semester 2

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

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. 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. Students must enrol in the industrial employment unit(s) in the semester in which they expect to submit their completed form for obtaining credit. Details of acceptable industrial employment can be obtained from the course coordinator.

Part-Time Course Structure

Part-time students shall have engaged 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 unit(s) then submit an industrial experience record form which has been completed by both the student and the employer.

The first four semesters are common to the General and Water and Wastewater Process Operation Majors.

		Credit Points	Contact Hrs/Wk
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
SVT306	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
	One List B1 Elective Unit	7	3

Year 4, Semester 1

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

Year 4, Semester 2

	One List B1 Elective Unit	7	3
	Two List B2 Elective Units	14	6

COURSE ELECTIVE UNITS

LIST A – All Elective Units in the Course

CET420	Civil Systems 2	7	3
CET606	Construction Management (Evening)	7	3
CET655	Concrete and Steel Design (Day & Evening)	7	3
CET703	Civil Engineering Practice 1 (not 1993)	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 (not 1993)	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 and Industrial Relations (Evening)	7	2
MET140	Engineering Materials 1	8	3

LIST B1 Elective Units

FIRST SEMESTER

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

SECOND SEMESTER

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

List B2 Elective Units

FIRST SEMESTER

CET703	Civil Engineering Practice 1 (not 1993)	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
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CET797	Project 1	7	3
CET802	Civil Engineering Practice 2 (not 1993)	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 is dependent upon a sufficient number of students being enrolled.

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

WATER AND WASTEWATER PROCESS OPERATION MAJOR

(Semesters 1 to 4 are common to the 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 and Maintenance	7	3
CHA145	Introductory Chemistry	8	3
CHA644	Process Measurement and Monitoring 1	7	3

Year 4, Semester 1

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

Year 4, Semester 2

CET876	Plant Operation and Maintenance	7	3
CET877	Process Operation and 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

■ 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: To be advised.

Professional Recognition

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

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

			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 1 no longer offered

Year 2, Semester 1

EET570	Electronics 2		7	3
	Major 1	(a)	7	3
	Major 2	(a)	7	3

Year 2, Semester 2

MET600	Materials for Electrical Engineers		4	1.5
MET601	Mechanical Plant		3	1.5
	Major 1	(b)	7	3
	Major 2	(b)	7	3

Year 3, Semester 1

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

Year 3, Semester 2

EET880	Design		7	3
	Major 1	(d)	7	3
	Major 2	(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 shall have engaged 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 shall have engaged 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.

		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
CST390	Computer Programming 1	7	3
EET350	Electrical Engineering 3	7	3
EET676	Digital Electronics	7	3
Year 2, Semester 2			
EET420	Control Systems 1	7	3
EET460	Telecommunications	7	3
EET490	Computer Packages	7	3
Year 3, Semester 1			
EET570	Electronics 2	7	3
	Major 1 (a)	7	3
	Major 2 (a)	7	3
Year 3, Semester 2			
MET600	Materials for Electrical Engineers	4	1.5
MET601	Mechanical Plant	3	1.5
	Major 1 (b)	7	3
	Major 2 (b)	7	3
Year 4, Semester 1			
	One Elective Unit	7	3
	Major 1 (c)	7	3
	Major 2 (c)	7	3
Year 4, Semester 2			
EET880	Design	7	3
	Major 1 (d)	7	3
	Major 2 (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

Note:

1. Majors 1 and 2 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.

3. A student who has completed the following trade courses in Queensland may apply to be exempted from the following units. Prior approval is not necessary to gain exemption if these courses are studied concurrently with a QUT course. A student enrolled in an apprenticeship training course who wishes to defer a unit, in anticipation of an exemption, must make written application to the Registrar.

- ☐ EET111 Electrical Engineering 1 – Fitter (Instrumentation); Electrical Fitter and/or Mechanic; Radio and/or Television Mechanic; Telecommunications Certificate
- ☐ EET350 Electrical Engineering 3 – Electrical Fitter and Mechanic.

■ 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

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Jack Laracy

Professional Recognition

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

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
EET500	Electrical Technology	6	3
MET250	Thermodynamics	6	3
MET320	Engineering Drawing 3	6	3
MET572	Production Planning & Control	6	3
MET580	Machine Elements I	6	3
MET920	Computer Aided Design & Drafting	6	3
MET933	Industrial Tribology	6	3
	One Elective Unit	6	3

Year 2, Semester 2

MET350	Process Engineering	7	3
MET420	Engineering Drawing 4	7	3
MET421	Mechanical Project 1A	3	3
MET573	CAD/CAM Technology	7	3
MET650	Plant Engineering 1A	3	3
MET961	Fluid Mechanics	7	3
MET971	Industrial Practice	7	3
	One Elective Unit	7	3

Elective Units

FIRST SEMESTER

EEB101	Circuits & Measurements*	7	3
MAB187	Engineering Mathematics 1A*	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*	6	3

SECOND SEMESTER

MAA251	Statistics & Data Processing	8	3
MAB188	Engineering Mathematics 1B*	6	3
MEB111	Dynamics*	7	3
MET352	Air Conditioning & Refrigeration	7	3
MET680	Machine Elements 2	7	3
MET960	Fluid Power	7	3

Industrial Experience

An industrial experience record form must be submitted. Forms for obtaining credit for industrial employment are available from the Faculty office. Students must enrol in the industrial employment unit in the semester in which they expect to submit their completed form for obtaining credit.

Note:

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.
2. Degree level units (*) may be selected as elective units with the approval of the Head of School.
3. Generally, a full-time student will gain 24 credit points by successfully completing six 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 industrial employment. However, a combination of practical experience units and industrial employment totalling 24 credit points will be accepted.
4. A registered student who has completed the following trade courses in Queensland may apply to be exempted from the following units. Prior approval is not necessary to gain exemption if these courses are studied concurrently with a QUT course. A student enrolled in an apprenticeship training course who wishes to defer a subject, in anticipation of an exemption, must make written application to the Registrar.
☐ MET170 Manufacturing Technology – Mechanical Fitter; Toolmaker.

* Degree level units may be selected as elective units with the approval of the Head of the School.

Part-Time Course Structure

Part-time students shall have engaged 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 and then submit an industrial experience record form, which has been completed by both the student and the employer. Forms are available from the Faculty office.

		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
MET320	Engineering Drawing 3	6	3
MET560	Thermofluids	8	3
MET940	Mechanical Measurements	8	3
Year 2, Semester 2			
CSA165	Computing	7	3
MET170	Manufacturing Technology	8	3
MET420	Engineering Drawing 4	7	3
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
	One Elective Unit	6	3
Year 4, Semester 2			
MET350	Process Engineering	7	3
MET971	Industrial Practice	7	3
	One Elective Unit	7	3

Elective Units

The list of elective units is the same as for the full-time course.

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

