FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING
Gardens Point campus

Course Structures

■ Master of Applied Science – Built Environment (BTN233)

Location: Gardens Point campus

Entry Requirements

Applicants for admission to the masters program:

(a) shall hold a suitable degree or postgraduate qualification leading to eligibility for corporate membership of an accepted professional institute; or

(b) shall hold qualifications approved by the Built Environment Graduate Studies Standing Committee on the recommendation of the Course Coordinator as equivalent to the requirements set out in paragraph (a) above; and

(c) shall normally have at least three years of appropriate work experience.

The basic qualification and work experience will not be the sole requirement for admission. The Graduate Studies Standing Committee may also take into account an applicant's performance as an undergraduate and a demonstrated commitment to the professional area.

PROJECT MANAGEMENT MAJOR

Course Duration: 2 years full-time, 3 years part-time

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 36

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 (BGM228). Persons admitted to the Master of Applied Science – Built Environment who are graduates of the Graduate Diploma in Project Management will complete the final two semesters of the course in order to be awarded the masters degree.

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

BUILDING PROJECT MANAGEMENT SPECIALISATION

Full-Time Course Structure		**Credit Points**	**Contact Hrs/Wk**
Year 1, Semester 1			
BGP431	Project Management I*	6	2
BGP434	Time Management 1	6	2

* *Subject extends over two semesters.*

BGP417	Design Management	6	2
BGP429	Cost Management & Economics*	6	2
BGP430	Current Issues*	9	3
BGP426	Project Development*	6	2
BGP433	Project Management Law*	6	2

Year 1, Semester 2

BGP431	Project Management I*	6	2
BGP414	Time Management 2	6	2
BGP429	Cost Management & Economics*	6	-
BGP437	Field Trip	12	-
BGP430	Current Issues*	9	3
BGP426	Project Development*	6	2
BGP433	Project Management Law*	6	2

Year 2, Semester 1

BGP440	Research Methodology	3	1
BGP441	Statistics	6	2
BGP442	Dissertation*	15	5

Year 2, Semester 2

BGP442	Dissertation*	24	8

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk

Year 1, Semester 1

BGP431	Project Management I*	6	2
BGP434	Time Management 1	6	2
BGP417	Design Management	6	2
BGP429	Cost Management & Economics*	6	2

Year 1, Semester 2

BGP431	Project Management I*	6	2
BGP434	Time Management 2	6	2
BGP429	Cost Management & Economics*	6	2
BGP437	Field Trip	12	-

Year 2, Semester 1

BGP430	Current Issues	9	3
BGP426	Project Development*	6	2
BGP433	Project Management Law*	6	2

Year 2, Semester 2

BGP430	Current Issues*	9	3
BGP426	Project Development*	6	2
BGP433	Project Management Law*	6	2

Year 3, Semester 1

BGP440	Research Methodology	3	1
BGP441	Statistics	6	2
BGP442	Dissertation*	15	5

Year 3, Semester 2

BGP442	Dissertation*	24	8

* *Subject extends over two semesters.*

PROPERTY DEVELOPMENT SPECIALISATION

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BGP431	Project Management I*	6	2
BGP412	Property Maintenance	6	2
LPP325	Urban Design	6	2
BGP439	Property Management	6	2
BGP430	Current Issues*	9	3
BGP438	Real Estate Investment & Economics	6	2
	Elective	9	3
Year 1, Semester 2			
BGP431	Project Management I*	6	2
LPP323	Urban Land Development	6	2
BGP437	Field Trip	12	-
BGP430	Current Issues*	9	3
BGP422	Advanced Valuations	6	2
	Elective	9	3
Year 2, Semester 1			
BGP440	Research Methodology	3	1
BGP441	Statistics	6	2
BGP442	Dissertation*	15	5
Year 2, Semester 2			
BGP442	Dissertation*	24	8

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BGP431	Project Management I*	6	2
BGP412	Property Maintenance	6	2
LPP325	Urban Design	6	2
BGP439	Property Management	6	2
Year 1, Semester 2			
BGP431	Project Management I*	6	2
LPP323	Urban Land Development	6	2
BGP437	Field Trip	12	-
Year 2, Semester 1			
BGP430	Current Issues*	9	3
BGP438	Real Estate Investment & Economics	6	3
	Elective	9	3
Year 2, Semester 2			
BGP430	Current Issues*	9	3
BGP422	Advanced Valuations	6	2
	Elective	9	3
Year 3, Semester 1			
BGP440	Research Methodology	3	1
BGP441	Statistics	6	2
BGP442	Dissertation*	15	5
Year 3, Semester 2			
BGP442	Dissertation*	24	8

* *Subject extends over two semesters.*

URBAN DESIGN 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 Urban Design Major: Mr Gordon Holden

Provisional Entry to Urban Design Major

Applicants with other than normal entry requirements may be registered provisionally in the course if they submit other evidence of academic and professional attainments, and candidature is approved by the Built Environment Graduate Studies Standing Committee on the recommendation of the Course Coordinator.

A provisional registrant will be required to undertake a qualifying program which may include course subjects, and/or such other work as the Built Environment Graduate Studies Standing Committee determines before admission is confirmed. Provisional registration in the course will apply for a maximum period of twelve months for both full-time and part-time students.

A provisional qualifying program may typically be formed from the following :

		Credit Points	Contact Hrs/Wk
MASTER OF APPLIED SCIENCE BUILT ENVIRONMENT SUBJECT			
BTN601	Prescriptive Subject for Urban Design	9	3
GRADUATE DIPLOMA IN LANDSCAPE ARCHITECTURE SUBJECTS			
LPP202	Residential Landscape Design	8	3
LPP203	Urban Landscape Design	10	3
LPP516	Visual Communication - Graphics	6	3
GRADUATE DIPLOMA IN URBAN AND REGIONAL PLANNING SUBJECTS			
LPP403	Introduction to Planning Processes	6	2
LPP404	Introduction to Theories of Planning	6	1
LPP407	Urban Policy Processes	4	2
LPP560	History of Planning	3	1
LPP561	Introduction to Urban Design	18	3
LPP565	Urban Land Development	3	1

Full-Time Course Structure		**Credit Points**	**Contact Hrs/Wk**
Year 1, Semester 1			
BTN101	Urban Design Analysis Studio	9	3
BTN103	Urban Design Conjecture Studio	9	3
BTN201	Urban Design History of Urban Systems	3	1
BTN202	The Urban Environment & Behaviour I	3	1
BTN303	Transport & Movement Systems in Urban Design	3	1
BTN304	Urban Climate & Services	3	1
BTN402	Law & Legislation in Urban Design	3	1
BTN601	Prescriptive Subject for Urban Design	9	3
BTN701	Urban Design Research Elective I	6	2
Year 1, Semester 2			
BTN102	Urban Design Context Studio	9	3
BTN104	Urban Design Guidelines Studio	9	3
BTN203	The Urban Environment & Behaviour II	3	1

BTN305	Tourism & Recreation in Urban Design	3	1
BTN301	Conservation & Reuse in Urban Design	3	1
BTN302	The Urban Landscape	3	1
BTN401	Urban Design Computer Applications	6	2
BTN403	Urban Design Guidelines & Development Control	3	1
BTN404	Urban Design Feasibilities & Management	3	1
BTN702	Urban Design Research Elective II	15	3

Year 2, Semester 1

BTN105	Urban Design Field Studies Studio	9	3
BTN204	Urban Design Theory & Criticism	6	2
BTN501	Research Dissertation	24	7

Part-Time Course Structure		**Credit Points**	**Contact Hrs/Wk**
Year 1, Semester 1			
BTN101	Urban Design Analysis Studio	9	3
BTN201	Urban Design History of Urban Systems	3	1
BTN202	The Urban Environment & Behaviour I	3	1
BTN601	Prescriptive Subject for Urban Design	9	3
Year 1, Semester 2			
BTN102	Urban Design Context Studio	9	3
BTN203	The Urban Environment & Behaviour II	3	1
BTN301	Conservation & Reuse in Urban Design	3	1
BTN302	The Urban Landscape	3	1
BTN401	Urban Design Computer Applications	6	2
Year 2, Semester 1			
BTN103	Urban Design Conjecture Studio	9	3
BTN303	Transport & Movement Systems in Urban Design	3	1
BTN304	Urban Climate & Services	3	1
BTN402	Law & Legislation in Urban Design	3	1
BTN204	Urban Design Theory & Criticism	6	2
Year 2, Semester 2			
BTN104	Urban Design Guidelines Studio	9	3
BTN305	Tourism & Recreation in Urban Design	3	1
BTN403	Urban Design Guidelines & Development Control	3	1
BTN404	Urban Design Feasibilities & Management	3	1
BTN701	Urban Design Research Elective I	6	2
Year 3, Semester 1			
BTN105	Urban Design Field Studies Studio	9	3
BTN702	Urban Design Research Elective II	15	3
Year 3, Semester 2			
BTN501	Urban Design Research Dissertation	24	7

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: Assoc. Professor Phil Heywood

Entry Requirements

Applicants for admission should:

(i) hold a Graduate Diploma in Urban and Regional Planning from the Queensland University of Technology; 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 Urban and Regional Planning.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
LPN111	Comparative Planning Theory	4	1
LPN112	Concentration Studies	8	2
LPN113	Option Projects	12	3
LPN114	Applied Research Techniques	4	1
LPN115	Metropolitan Planning Practice & Law	20	4
Year 1, Semester 2			
LPN121	Planning Thesis	24	2
LPN122	Professional Seminars	8	2
LPN123	Planning in Developing Countries	8	2
LPN124	Option Course	8	2

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
LPN111	Comparative Planning Theory	4	1
LPN115	Metropolitan Planning Practice & Law	20	4
Year 1, Semester 2			
LPN122	Professional Seminars	8	2
LPN123	Planning in Developing Countries	8	2
LPN124	Option Course	8	2
Year 2, Semester 1			
LPN112	Concentration Studies	8	2
LPN113	Option Projects	12	3
LPN114	Applied Research Techniques	4	1
Year 2, Semester 2			
LPN121	Planning Thesis	24	2

■ Master of Engineering Science – Civil (CEN254)

Location: Gardens Point campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Brian Rigden

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 in Municipal Engineering with a Grade Point Average (GPA) of at least 5.

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

Entrants may transfer from the Graduate Diploma in Municipal Engineering with a Grade Point Average (GPA) of at least 5 after completion of at least 50 percent of the coursework for the Graduate Diploma.

Course Structure

The course will consist of 20 credit points (5 semester hours) of core subjects plus 40 credit points (10 semester hours) of electives plus a project equivalent to 8 semester hours. The project comprises 35 per cent of the content of the course. The subject CEP999 is a multisemester subject which may be studied either in a single semester with a combined value of 36 credit points, or over two semesters at 18 credit points per semester.

		Semester Offered	Credit Points	Contact Hrs/Wk
Core Subjects				
Subjects are generally offered in alternate years.				
CEP131	Engineering Management & Administration	1	12	3
CEP200	Process Modelling	2	8	2
CEP999	Project	1,2	36	8
Electives				
CEP128	Municipal Engineering Planning	1	12	3
CEP172	Water Quality Engineering	1	8	2
CEP218	Transportation Engineering	1	12	3
CEP107	Construction Management & Economics	1	8	2
CEP127	Road & Traffic Engineering	1	12	3
CEP361	Drainage Engineering	2	8	2
CEP174	Public Health Engineering Practice	1	12	3
CEP109	Municipal Law & Regulations	2	8	2
CEP310	Urban Transportation Planning	2	8	2
CEP277	Waste Management	2	12	3
CEP215	Advanced Traffic Engineering	2	8	2
CEP276	Advanced Treatment Processes	2	8	2

SUGGESTED ELECTIVES FOR PUBLIC HEALTH ENGINEERING MAJOR

CEP174	Public Health Engineering Practice
CEP277	Waste Management
CEP172	Water Quality Engineering
CEP276	Advanced Treatment Processes
CEP361	Drainage Engineering

SUGGESTED ELECTIVES FOR LOCAL GOVERNMENT MAJOR

CEP174	Public Health Engineering Practice
CEP277	Waste Management
CEP361	Drainage Engineering

CEP127	Road & Traffic Engineering
CEP107	Construction Management & Economics
CEP128	Municipal Engineering Planning
CEP109	Municipal Law & Regulations

SUGGESTED ELECTIVES FOR TRANSPORTATION ENGINEERING MAJOR

CEP361	Drainage Engineering
CEP127	Road & Traffic Engineering
CEP218	Transportation Engineering
CEP215	Advanced Traffic Engineering
CEP310	Urban Transportation Planning

Master of Engineering Science – Computer Engineering (EEN260)

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Paul Wilson

Entry Requirements

(i) A Bachelor's degree in Engineering with at least second class honours, or

(ii) Students in possession of a Bachelor's degree in Engineering may transfer from the Graduate Diploma in Computer Engineering with a Grade Point Average (GPA) of at least 5 (credit level) at the end of the first part-time year.

(iii) Graduates from the Graduate Diploma in Automatic Control or Computer Controlled Systems or Computer Engineering with a GPA 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 to be assessed 50 per cent by coursework and 50 per cent by thesis.

The coursework consists of the four compulsory subjects of the Graduate Diploma in Computer Engineering. Assessment of these subjects 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
Semester 1			
EEP102	Unix & C for Engineering	12	3
EEP104	Realtime Operating Systems	12	3

Semester 2

EEP101	Algorithms for Control & Signal Processing	12	3
EEP103	Computer Hardware & Interfacing	12	3
EEP300	Research Project*	24	-

Part-Time Course Structure

Consult the Course Coordinator for details.

Master of Engineering by Thesis (ENN191)

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
- to provide for increased 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 and/or original 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 shall be 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 Engineering through its Master's Degree Standing 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 by Thesis a candidate must:

- have completed the approved program involving advanced and/or original work under the supervision prescribed by the Engineering Academic Board
- have submitted and the Engineering Academic Board accepted a thesis, together with reports, and/or documents where applicable, prepared under the supervision of the supervisor
- have completed such other work as may be prescribed by the Engineering Academic Board, and

* *Subject extends over two semesters.*

- submit to the Engineering Academic Board a declaration signed by the candidate that s/he has not been a candidate for another tertiary award without permission of the Academic Board.

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 Master's Degree Standing Committee and enrolment by the student in the Master of Engineering by Thesis before the offer of admission to the program lapses.

2.4 Normal admission will require the candidate to have at least an Honours IIA degree in a bachelor degree in Engineering from the Queensland University of Technology or a qualification judged equivalent by the Engineering Academic Board.

Entry to the program by candidates without an Honours 11A degree may be allowed if the following requirements are met:

(a) Three years' professional experience in the general field in which the proposed work lies, or

(b) Satisfactory completion of an appropriate master's qualifying program including formal coursework and/or reading program in related fields stipulated by the Engineering Academic Board,* or

(c) The submission of technical publications or other appropriate evidence which satisfies the Engineering Academic Board that advanced knowledge has been acquired in a division of engineering in which the applicant has worked as a professional engineer in a position of responsibility. This knowledge should be relevant to the field of study proposed.

2.5 A candidate shall be registered initially as

- a graduate student (provisional) if he/she is to undertake an appropriate qualifying program
- a graduate student if he/she is considered by the Engineering Academic Board to meet the requirements for entry.

2.6 In considering an applicant for registration, the Engineering Academic Board shall, in addition to assessing the applicant's suitability, be satisfied that:

- the proposed program has relevance to the aims and objectives of the University
- the proposed program has relevance to the needs of industry, and
- the applicant can devote sufficient time to his/her planned program.

2.7 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 projects on a part-time basis at the QUT or in their place of employment or in a sponsoring organisation.

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

2.9 Engineering Academic Board may cancel a candidate's registration if:

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

- after consulting a candidate's supervisors and having taken account of all relevant circumstances, the Academic Board is of the opinion that the candidate either has effectively discontinued his/her studies or has no reasonable expectation of completing the course of study within the maximum time allowed (see Section 4).

2.10 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 Engineering Academic Board shall prescribe.

3. Course of Study

3.1 A candidate for the degree of Master of Engineering by Thesis will undertake necessary project work in design, investigation and research and/or development work on a topic approved by the Engineering Academic Board.

3.2 All projects should be sponsored by outside agencies such as industry, government authorities and professional organisations, or by the 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 projects be primarily directed towards industry need.

3.3 Where advised*, a candidate may be required to complete satisfactorily formal coursework in subjects relevant to the field of study up to a total class contact of 48 credit points.

3.4 The supervisor shall require students to participate in graduate seminars and may require them to attend specialist lectures. Students will be encouraged to attend conferences, where these are related to the field of the project.

Students are required to present at least one seminar on their thesis topic at QUT and are encouraged to present additional seminars to professional bodies.

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 students present critical studies of selected problems within the subject field
- as independent study or reading courses, or
- as research projects conducted under faculty supervision.

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 The following documents should be lodged with the application:

* *As a qualifying program.*

- ☐ details of academic qualifications and supporting evidence, including copies of results for each year of courses
- ☐ a brief account of industrial experience
- ☐ a list of publications
- ☐ a summary of the work to be undertaken in the proposed program, where this work will be undertaken, the amount of time which will be devoted to it, the resources required
- ☐ sponsorship details
- ☐ statement of approval by Head of School, and
- ☐ any other relevant material.

4. Period of Time for Completion of Course of Study

4.1 A full-time graduate student (provisional) shall not be eligible for confirmation of registration as a graduate student until a period of at least twelve months has elapsed from initial registration. In the case of a part-time student the corresponding period shall be at least twenty-four months.

4.2 A registered graduate student shall present the thesis for examination after a period of at least two years for a part-time student or one year for a full-time student has elapsed from the time of confirmed registration, except in the case of special permission granted under 4.3. In special cases the academic board may approve a shorter period.

4.3 A registered graduate student shall present the thesis for examination no later than four years for a part-time student or two years for a full-time student from the date of confirmed registration.

4.4 A registered graduate student who has obtained normal admission to the master degree program may apply to the Engineering Academic Board for permission to submit the thesis in less than two years for a part-time student and less than one year for a full-time student after commencement, for an extension of time, or for leave of absence from the program.

4.5 Where application is made for permission to extend the period within which the candidate may submit a thesis for examination, details of the candidate's progress shall be presented to the Engineering Academic Board together with reasons for the delay in completing the course and the expected date of completion. Where the Academic Board agrees to an extension it may set a limit to the maximum period of registration in the program.

5. Supervision

5.1 The Engineering Academic Board shall appoint one or more supervisors in respect of each candidate, provided that, where more than one supervisor is appointed, one shall be nominated as the Principal Supervisor and others as Associate Supervisors.

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

5.3 Candidates shall present six-monthly progress reports to their Principal Supervisor, who will submit these to the Engineering Academic Board with comments.

6. Place and Conditions of Work

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

6.2 The Academic Board shall not admit a candidate unless it has received:

- a supporting statement from the head of the QUT school supervising the program that in his/her opinion, the applicant is a suitable person to undertake a research program leading to the master degree, that he/she supports the program, and that the school is willing to undertake the responsibility of supervising the work of the applicant, and
- a supporting statement from the employer, stating that he/she is aware of the course rules and is prepared to sponsor and support the applicant. The employer should also state the extent of facilities available for the project, the extent to which supervision could be given for this work and the extent to which time will be made available to the applicant for the project.

7. Thesis

7.1 In the form of presentation, 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, students shall submit the title of their thesis for approval by the Engineering Academic Board, and after approval has been granted, no change will be made except with the permission of the Engineering Academic Board.

7.3 The candidate shall give two months' written notice of intention to submit his/her thesis and such notice shall be accompanied by the appropriate fee, if any.

7.4 The thesis shall comply with the following requirements:

- a significant proportion of the work described (as determined by the Engineering Academic Board) must have been completed subsequent to initial registration for the master degree
- there must be an advanced and/or original contribution to the knowledge of the subject
- it must reach a satisfactory standard of literary presentation
- it shall be the student's own account of the work. Where work is carried out conjointly with other persons, the Engineering Academic Board shall be advised as to the extent of the student's contribution to the joint work
- the thesis shall not contain as its main content any work or material which the student has previously submitted for another degree or similar award, and
- 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.

7.5 Except with the specific permission of the Engineering Academic Board 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 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 Engineering Academic Board shall appoint three examiners, of whom at least two shall be from outside the University. No supervisor of the candidate shall be appointed as one of the examiners.

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

8.3 On receipt of the reports from the examiners, the Engineering Academic Board shall:

(a) recommend that the thesis be accepted without modification, or

(b) recommend to Academic Committee that the student be awarded a Master of Engineering degree, after any minor amendments requested by the examiners have been made, or

(c) permit the student to resubmit the revised thesis for re-examination within one year, or

(d) cancel the student's registration.

8.4 If the examiners' reports are conflicting, the Engineering Academic Board may, after appropriate consultation with the Principal Supervisor, resubmit the thesis to the examiners with copies of the examiners' reports. After due consideration of further reports from the examiners, a majority decision will be accepted by the Board.

Graduate Diploma in Computer Engineering (EEM230)

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

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

(i) 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 subjects at undergraduate level.

Course Structure		Credit Points	Contact Hrs/Wk
Eight subjects of 3 hours and 12 credit points each:			
Core Subjects			
Year 1, Semester 1			
EEP102	Unix & C for Engineering	12	3
EEP104	Realtime Operating Systems	12	3
Year 1, Semester 2			
EEP101	Algorithms for Control & Signal Processing	12	3
EEP103	Computer Hardware & Interfacing	12	3

Electives
Any four to be selected.

Year 2, Semester 1

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

Year 2, Semester 2

EEP120	Networks & Distributed Computing	12	3
EEP121	Parallel & Super Computing	12	3
EEP125	Advanced Engineering Software Tools	12	3

Graduate Diploma in Industrial Design (ARM142)

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: Ms 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 a 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			
ARP672	Industrial Design I	16	6
ARP613	Advanced Ergonomics I	2	1
ARP671	History, Theory & Criticism of Industrial Design	2	1
ARP676	Advanced CAD for Industrial Designers I	4	2
ARP674	Industrial Design Research I	20	8
ARP642	Case Studies	4	2
Semester 2			
ARP673	Industrial Design II	16	6
ARP623	Advanced Ergonomics II	4	2
ARP677	Advanced CAD for Industrial Designers II	4	2
ARP675	Industrial Design Research II	20	8
ARP652	Design Management & Decision Theory	2	1
ARP653	Professional Practice	2	1

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ARP672	Industrial Design I	16	6
ARP613	Advanced Ergonomics I	2	1
ARP671	History, Theory & Criticism of Industrial Design	2	1
ARP676	Advanced CAD for Industrial Designers I	4	2
Year 1, Semester 2			
ARP673	Industrial Design II	16	6
ARP623	Advanced Ergonomics II	4	2
ARP677	Advanced CAD for Industrial Designers II	4	2
Year 2, Semester 1			
ARP674	Industrial Design Research I	20	8
ARP642	Case Studies	4	2
Year 2, Semester 2			
ARP675	Industrial Design Research II	20	8
ARP652	Design Management & Decision Theory	2	1
ARP653	Professional Practice	2	1

Graduate Diploma in Interior Design (ARM256)

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Peter Hedley

Entry Requirements

To be eligible for admission, an applicant must:

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

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

Professional Recognition

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

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
ARP502	Environmental Communications	13	5
ARP504	Professional Practice & Management for Interior Designers I	11	4
ARP501	Introduction to Facilities Management	8	2
ARP601	Film, TV & Design for Theatre	16	6

Semester 2

ARP503	Workplace Design	12	5
ARP505	Professional Practice & Management for Interior Designers II	4	2
ARP602	Conservation of Historic Interiors	16	6
ARP603	Historic Technologies	8	3
ARP600	Building Evaluation & Brief Development	8	3

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ARP502	Environmental Communications	13	5
ARP504	Professional Practice & Management for Interior Designers I	11	4
Year 1, Semester 2			
ARP503	Workplace Design	12	5
ARP505	Professional Practice & Management for Interior Designers II	4	2
ARP600	Building Evaluation & Brief Development	8	3
Year 2, Semester 1			
ARP501	Introduction to Facilities Management	8	2
ARP601	Film, TV & Design for Theatre	16	6
Year 2, Semester 2			
ARP602	Conservation of Historic Interiors	16	6
ARP603	Historic Technologies	8	3

Graduate Diploma in Landscape Architecture (LPM265)

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 an approved degree or diploma from a recognised tertiary institution; or

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

Special entry provisions also apply. All applicants are required to have appropriate skills and knowledge in basic design (perception, free-hand drawing and technical drawing) prior to enrolment.

Graduates of the BAppSc – Built Environment course, Landscape Architecture Major shall be granted exemption from Year 1 (full-time) or Years 1 and 2 (part-time). Students from other backgrounds will be granted exemptions as appropriate to their 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			
LPP501	Theory of Site Planning	2	1
LPP506	User & Character Design Studies	8	3
LPP508	Introduction to Practice	4	2
LPP511	Environmental Psychology	4	2
LPP512	Introduction to Plant Science	4	2
LPP513	Introduction to Plant Ecology	4	2
LPP516	Visual Communication - Graphics	6	3
LPP517	Oral Communication Skills	2	1
LPP518	Report Preparation	2	1
LPP521	Map & Air Photo Interpretation	4	1
LPP522	Measurement of Sites	2	1
LPP523	Landscape Construction	6	3
Year 1, Semester 2			
LPP502	Site Planning Techniques	2	1
LPP503	History of Landscape Design	2	1
LPP504	Planting Design	3	1
LPP505	Conservation Theory	3	1
LPP507	Site Planning	11	3
LPP509	Quantities & Costs	2	1
LPP510	Introduction to Law	2	1
LPP514	Landscape Ecology	9	3
LPP515	Impacts & Assessment	4	2
LPP520	Landscape Graphics	4	2
LPP524	Land Grading	6	3
Year 2, Semester 1			
LPP202	Residential Landscape Design	8	3
LPP203	Urban Landscape Design	10	3
LPP206	Forum/Workshop A	2	1
LPP209	Advanced Landscape Ecology	2	1
LPP210	Landscape Management A	10	4
LPP212	Advanced Graphics	4	2
LPP213	Advanced Landscape Construction	8	3
LPP215	Department Field Trip*	2	-
LPP216	Computer Aided Data Analysis A	2	1
Year 2, Semester 2			
LPP201	Cultural Values	4	1
LPP204	Landscape Planning	10	4
LPP205	Landscape Design	10	3
LPP207	Forum/Workshop B	2	1
LPP208	Landscape Practice	6	2
LPP211	Landscape Management B	10	4
LPP214	Landscape Engineering	4	2
LPP217	Computer Aided Data Analysis B	2	1

* *Field trip may be conducted in Year 2, Semester 2.*

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
LPP508	Introduction to Practice	4	2
LPP512	Introduction to Plant Science	4	2
LPP513	Introduction to Plant Ecology	4	2
LPP516	Visual Communication - Graphics	6	3
LPP521	Map & Air Photo Interpretation	4	1
LPP522	Measurement of Sites	2	1
Year 1, Semester 2			
LPP504	Planting Design	3	1
LPP509	Quantities & Costs	2	1
LPP514	Landscape Ecology	9	3
LPP520	Landscape Graphics	4	2
LPP524	Land Grading	6	3
Year 2, Semester 1			
LPP501	Theory of Site Planning	2	1
LPP506	User & Character Design Studies	8	3
LPP511	Environmental Psychology	4	2
LPP517	Oral Communication Skills	2	1
LPP518	Report Preparation	2	1
LPP523	Landscape Construction	6	3
Year 2, Semester 2			
LPP502	Site Planning Techniques	2	1
LPP503	History of Landscape Design	2	1
LPP505	Conservation Theory	3	1
LPP507	Site Planning	11	3
LPP510	Introduction to Law	2	1
LPP515	Impacts & Assessment	4	2
Year 3, Semester 1			
LPP202	Residential Landscape Design	8	3
LPP209	Advanced Landscape Ecology	2	1
LPP212	Advanced Graphics	4	2
LPP213	Advanced Landscape Construction	8	3
LPP216	Computer Aided Data Analysis A	2	1
Year 3, Semester 2			
LPP204	Landscape Planning	10	4
LPP207	Forum/Workshop B	2	1
LPP211	Landscape Management B	10	4
LPP217	Computer Aided Data Analysis B	2	1
Year 4, Semester 1			
LPP203	Urban Landscape Design	10	3
LPP206	Forum/Workshop A	2	1
LPP210	Landscape Management A	10	4
LPP215	Department Field Trip*	2	-
Year 4, Semester 2			
LPP201	Cultural Values	6	1
LPP205	Laudscape Design	11	3
LPP208	Landscape Practice	6	2
LPP214	Landscape Engineering	4	2

* *Field trip may be conducted in Year 3, Semester 2 or Year 4, Semester 2.*

Graduate Diploma in Municipal Engineering (CEM213)

Location: Gardens Point campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Brian Rigden

Entry Requirements

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

(i) an acceptable qualification in engineering from a recognised tertiary institution.

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 qualifications or hold professional engineering recognition may be required to complete such prerequisite engineering subjects as may be determined by the Head of the School of Civil Engineering prior to enrolment in the course.

Course Structure

The course will consist of 48 credit points (13 semester hours) of core material and 48 credit points (10 semester hours) of elective material.

		Semester Offered	Credit Points	Contact Hrs/Wk
Core Subjects				
Subjects are generally offered in alternate years.				
CEP131	Engineering Management & Administration	1	12	3
CEP128	Municipal Engineering Planning	1	12	3
CEP361	Drainage Engineering	2	8	2
CEP491	Municipal Engineering Practice	1,2	16	3
CEP200	Process Modelling	2	8	2
Electives				
CEP172	Water Quality Engineering	1	8	2
CEP218	Transportation Engineering	1	12	3
CEP174	Public Health Engineering Practice	1	12	3
CEP127	Road & Traffic Engineering	1	12	3
CEP107	Construction Management & Economics	1	8	2
CEP310	Urban Transportation Planning	2	8	2
CEP277	Waste Management	2	12	3
CEP109	Municipal Law & Regulations	2	8	2
CEP215	Advanced Traffic Engineering	2	8	2
CEP276	Advanced Treatment Processes	2	8	2
SUGGESTED LOCAL GOVERNMENT ENGINEERING PRACTICE MAJOR Core subjects plus the following:				
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

SUGGESTED TRANSPORTATION ENGINEERING MAJOR
Core subjects plus the following:

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

SUGGESTED PUBLIC HEALTH ENGINEERING MAJOR
Core subjects plus the following:

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

Graduate Diploma in Project Management (BGM228)

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 a 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			
BGP431	Project Management I*	6	2
BGP434	Time Management I	6	2
BGP417	Design Management	6	2
BGP429	Cost Management & Economics*	6	2
BGP430	Current Issues*	9	3
BGP426	Project Development*	6	2
BGP433	Project Management Law*	6	2
Semester 2			
BGP431	Project Management I*	6	2
BGP414	Time Management II	6	2
BGP429	Cost Management & Economics*	6	2

* *Subject extends over two semesters.*

BGP437	Field Trip	12	-
BGP430	Current Issues*	9	3
BGP426	Project Development*	6	2
BGP433	Project Management Law*	6	2

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BGP431	Project Management I*	6	2
BGP434	Time Management I	6	2
BGP417	Design Management	6	2
BGP429	Cost Management & Economics*	6	2
Year 1, Semester 2			
BGP431	Project Management I*	6	2
BGP414	Time Management II	6	2
BGP429	Cost Management & Economics*	6	2
BGP437	Field Trip	12	-
Year 2, Semester 1			
BGP430	Current Issues*	9	3
BGP426	Project Development*	6	2
BGP433	Project Management Law*	6	2
Year 2, Semester 2			
BGP430	Current Issues*	9	3
BGP426	Project Development*	6	2
BGP433	Project Management Law*	6	2

PROPERTY DEVELOPMENT MAJOR

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BGP431	Project Management I*	6	2
BGP412	Property Maintenance	6	2
LPP325	Urban Design	6	2
BGP439	Property Management	6	2
BGP430	Current Issues*	9	3
BGP438	Real Estate Investment & Economics	6	2
	Elective	9	3
Year 1, Semester 2			
BGP431	Project Management I*	6	2
LPP323	Urban Land Development	6	2
BGP437	Field Trip	12	-
BGP430	Current Issues*	9	3
BGP422	Advanced Valuations	6	2
	Elective	9	3

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BGP431	Project Management I*	6	2
BGP412	Property Maintenance	6	2
LPP325	Urban Design	6	2
BGP439	Property Management	6	2

* *Subject extends over two semesters.*

Year 1, Semester 2

BGP431	Project Management I*	6	2
LPP323	Urban Land Development	6	2
BGP437	Field Trip	12	-

Year 2, Semester 1

BGP430	Current Issues*	9	3
BGP438	Real Estate Investment & Economics	6	2
	Elective	9	3

Year 2, Semester 2

BGP430	Current Issues*	9	3
BGP422	Advanced Valuations	6	2
	Elective	9	3

Graduate Diploma in Surveying Practice (SVM241)

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Brian Hannigan

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) the degree of Bachelor of Applied Science – Surveying from the Queensland University of Technology; or

(ii) the degree of Bachelor of Surveying 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 Department of Surveying to be at least equivalent to the degree of Bachelor of Applied Science – Surveying of this University.

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 subjects as may be determined by the Head of Department prior to enrolment in the course.

Course Structure		Credit Points	Total Student Contact Hrs
Semester 1			
SVP111	Cadastral Surveying I	26	356
SVP112	Survey Computing	3	47

* *Subject extends over two semesters.*

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 II	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 (LPM267)

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 Brian Hudson

Entry Requirements

To be eligible for admission, an applicant must:

(i) hold an approved degree or diploma from a recognised teritiary institution; or

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

Graduates of the BAppSc – Built Environment course, Urban and Regional Planning Major, shall be granted exemption from Year 1 (full-time) or Years 1 and 2 (part-time). Students from other backgrounds will be granted exemptions as appropriate to their experience.

Professional Recognition

The Graduate Diploma in Urban and Regional Planning is fully accredited by the Royal Australian Planning Institute.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
LPP551	Land Use Generation	7	2
LPP552	Introduction to Graphics	5	2
LPP553	Site Planning Data & Techniques	3	1
LPP554	Site Planning Practice	12	3
LPP555	Theory of Site Planning	3	1
LPP556	Professional Communication	5	2
LPP557	Transport Planning	5	2
LPP562	Economics of Town Planning	5	2
LPP564	Introduction to Maps & Air Photos	3	1

Year 1, Semester 2

LPP565	Urban Land Development	3	1
LPP558	Population & Urban Studies	10	3
LPP559	Applied Natural Science	5	2
LPP560	History of Planning	3	1
LPP561	Introduction to Urban Design	18	3
LPP563	Introduction to Computers	4	2
LPP566	Housing & Community Services	5	2

Year 2, Semester 1

LPP401	Rural Land Use & Planning	4	1
LPP403	Introduction to Planning Processes	6	2
LPP404	Introduction to Theories of Planning	6	2
LPP407	Urban Policy Processes	4	2
LPP408	Social & Political Structure	4	1
LPP411	Planning Practice & Law (Urban)	14	4
LPP413	Advanced Urban Structure	4	1
LPP414	Resource Management	6	2

Year 2, Semester 2

LPP402	Social Planning	4	1
LPP405	Procedural Planning Theory	4	1
LPP406	Professional Procedures & Ethics	4	1
LPP412	Planning Practice & Law (Regional & Strategic)	12	4
LPP415	Research Methods & Individual Project	10	2
LPP416	Urban Policy Implementation	4	1
LPP418	Computer Applications in Planning	6	-
LPP420	Departmental Field Trip	-	

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk

Year 1, Semester 1

LPP551	Land Use Generation	7	2
LPP552	Introduction to Graphics	5	2
LPP553	Site Planning Data & Techniques	3	1
LPP555	Theory of Site Planning	3	1
LPP556	Professional Communication	5	2
LPP562	Economics of Town Planning	5	2
LPP564	Introduction to Maps & Air Photos	3	1

Year 1, Semester 2

LPP558	Population & Urban Studies	10	3
LPP559	Applied Natural Science	5	2
LPP560	History of Planning	3	1
LPP561	Introduction to Urban Design	18	3
LPP563	Introduction to Computers	4	2

Year 2, Semester 1

LPP554	Site Planning Practice	12	3
LPP557	Transport Planning	5	2

Year 2, Semester 2

LPP565	Urban Land Development	3	1
LPP566	Housing & Community Services	5	2

Year 3, Semester 1

LPP403	Introduction to Planning Processes	6	2
LPP411	Planning Practice & Law (Urban)	14	4
LPP407	Urban Policy Processes	4	2
LPP408	Social & Political Structure	4	1

Year 3, Semester 2

LPP412	Planning Practice & Law (Regional & Strategic)	12	4
LPP416	Urban Policy Implementation	4	1
LPP418	Computer Applications in Planning	6	2
LPP420	Departmental Field Trip		-

Year 4, Semester 1

LPP401	Rural Land Use & Planning	4	1
LPP404	Introduction to Theories of Planning	6	2
LPP413	Advanced Urban Structure	4	1
LPP414	Resource Management	6	2

Year 4, Semester 2

LPP402	Social Planning	4	1
LPP405	Procedural Planning Theory	4	1
LPP406	Professional Procedures & Ethics	4	1
LPP415	Research Methods & Individual Project	10	2

Bachelor of Applied Science – Built Environment with Majors in Architecture, Industrial Design, Interior Design, Landscape Architecture, Urban and Regional Planning (BTJ227)

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr John Donnelly

Professional Recognition

ARCHITECTURE MAJOR
The Bachelor of Applied Science – Built Environment (Architecture Major) 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
The Bachelor of Applied Science – Built Environment (Industrial Design Major) is a two-tier course consisting of the three-year full-time degree program followed by a one-year full-time or a two-year part-time Graduate Diploma in Industrial Design.

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

INTERIOR DESIGN MAJOR
Successful completion of the Bachelor of Applied Science – Built Environment (Interior Design Major) satisfies the requirements for entry into the Graduate Diploma in Interior Design, which is accredited by the Design Institute of Australia.

LANDSCAPE ARCHITECTURE MAJOR

Successful completion of the Bachelor of Applied Science – Built Environment (Landscape Architecture Major) will enable 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 Applied Science – Built Environment (Urban and Regional Planning) satisfies requirements for 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**
ARCHITECTURE MAJOR			
Year 1, Semester 1			
BTB101	The Human Environment I	4	2
BTB102	History of the Built Environment I	6	3
BTB110	Applied Mathematics for Designers I	6	3
PHB144	Applied Science for Designers I	6	3
SVB001	Surveying & Mapping	2	1
CMB116	Writing for Designers I	4	2
BTB100	Introductory Design I	16	8
BTB113	Environmental Science	4	2
Year 1, Semester 2			
BTB201	The Human Environment II	4	2
BTB202	History of the Built Environment II	10	5
BTB210	Applied Mathematics for Designers II	6	3
BTB204	Applied Science for Designers II	4	2
BTB209	Applied Land Science for Designers	2	1
CMB117	Writing for Designers II	4	2
BTB200	Introductory Design II	18	8
Year 2, Semester 1			
BTB301	The Human Environment III	6	3
CEB359	Principles of Structure I	2	1
BTB310	Building Construction I	16	6
BTB307	Design Science I	2	1
BTB300	Design I	18	8
BTB306	Visual Communication I	4	2
Year 2, Semester 2			
BTB403	Environmental Studies - Environmental Impacts	2	1
BTB410	Building Construction II	10	5
BTB401	The Human Environment IV	4	2
BTB407	Design Science II	2	1
CEB459	Principles of Structure II	4	2
BTB406	Visual Communications II	4	2
BTB400	Design II	20	6
BTB440	Introduction to Economics	2	1
Year 3, Semester 1			
BTB517	Building Services I	4	2
BTB510	Building Construction III	17	6
BTB500	Design III	20	6
CEB559	Principles of Structure III	4	2
BTB527	Design Science III	3	1

Year 3, Semester 2

BTB609	Law of the Built Environment	4	2
BTB617	Building Services II	4	2
BTB610	Building Construction IV	14	6
BTB600	Design IV	20	6
CEB659	Principles of Structure IV	4	2
BTB627	Design Science IV	2	1

INDUSTRIAL DESIGN MAJOR

Year 1, Semester 1

BTB101	The Human Environment I	4	2
BTB102	History of the Built Environment I	6	3
BTB110	Applied Mathematics for Designers I	6	3
PHB144	Applied Science for Designers I	6	3
CMB116	Writing for Designers I	4	2
BTB100	Introductory Design I	16	8
BTB151	Introduction to Technology	2	1
BTB113	Environmental Science	4	2

Year 1, Semester 2

BTB201	The Human Environment II	4	2
BTB202	History of the Built Environment II	10	5
BTB210	Applied Mathematics for Designers II	6	3
BTB204	Applied Science for Designers II	4	2
CMB117	Writing for Designers II	4	2
BTB200	Introductory Design II	18	8
BTB220	Ergonomics I	2	1

Year 2, Semester 1

BTB301	The Human Environment III	6	3
CEB359	Principles of Structure I	2	1
BTB315	Manufacturing Technology I	12	6
BTB300	Design I	18	8
BTB306	Visual Communication I	4	2
BTB320	Ergonomics II	6	2

Year 2, Semester 2

BTB403	Environmental Studies - Environmental Impacts	2	1
BTB415	Manufacturing Technology II	12	6
BTB401	The Human Environment IV	4	2
BTB406	Visual Communications II	4	2
BTB400	Design II	20	6
BTB420	Ergonomics III	2	1
MEB010	Dynamics I	4	2

Year 3, Semester 1

BTB500	Design III	20	6
MEB012	Dynamics II	4	2
BTB552	Economics of Industrial Production	4	2
BTB558	Manufacturing Technology III	12	5
BTB506	Visual Communication III	4	2
BTB556	Marketing	4	2

Year 3, Semester 2

BTB609	Law of the Built Environment	4	2
BTB600	Design IV	20	6
BTB653	Visual Communication IV	4	2
BTB655	CAD for Industrial Designers	6	2
BTB658	Manufacturing Technology IV	14	5

INTERIOR DESIGN MAJOR

Year 1, Semester 1

BTB101	The Human Environment I	4	2
BTB102	History of the Built Environment I	6	3
PHB144	Applied Science for Designers I	6	3
CMB116	Writing for Designers I	4	2
BTB100	Introductory Design I	16	8
BTB132	Light & Colour Studies	8	2
BTB113	Environmental Science	4	2

Year 1, Semester 2

BTB201	The Human Environment II	4	2
BTB202	History of the Built Environment II	10	5
BTB204	Applied Science for Designers II	4	2
CMB117	Writing for Designers II	4	2
BTB235	Introduction to Interior Technology	8	3
BTB200	Introductory Design II	18	8

Year 2, Semester 1

BTB301	The Human Environment III	6	3
BTB335	Interior Technology I	14	5
BTB307	Design Science I	2	1
BTB300	Design I	18	8
BTB331	Furniture & Fittings I	4	2
BTB306	Visual Communication I	4	2

Year 2, Semester 2

BTB403	Environmental Studies - Environmental Impacts	2	1
BTB401	The Human Environment IV	4	2
BTB407	Design Science II	2	1
BTB451	Architectural Interior Systems I	4	2
BTB406	Visual Communications II	4	2
BTB400	Design II	20	6
BTB435	Interior Technology II	8	4
BTB431	Furniture & Fittings II	4	2

Year 3, Semester 1

BTB551	Architectural Interior Systems II	4	2
BTB500	Design III	20	6
BTB506	Visual Communication III	4	2
BTB535	Interior Technology III	16	6
BTB531	Furniture & Fittings III	4	2

Year 3, Semester 2

BTB609	Law of the Built Environment	4	2
BTB600	Design IV	20	6
BTB635	Interior Technology IV	16	6
BTB653	Visual Communications IV	4	2
BTB631	Furniture & Fittings IV	4	2

LANDSCAPE ARCHITECTURE MAJOR

Year 1, Semester 1

BTB101	The Human Environment I	4	2
BTB102	History of the Built Environment I	6	3
PHB144	Applied Science for Designers I	6	3
BTB135	Map & Air Photo Interpretation	2	1
CMB116	Writing for Designers I	4	2
BTB100	Introductory Design I	16	8
MAB195	Quantitative Methods I	6	3
BTB113	Environmental Science	4	2

Year 1, Semester 2

BTB201	The Human Environment II	4	2
BTB202	History of the Built Environment II	10	5
BTB204	Applied Science for Designers II	4	2
BTB209	Applied Land Science for Designers	2	1
CMB117	Writing for Designers II	4	2
BTB200	Introductory Design II	18	8
MAB196	Quantitative Methods II	6	3

Year 2, Semester 1

BTB301	The Human Environment III	6	3
BTB300	Design I	18	8
BTB346	Graphic Communication	6	3
BTB340	Site Measurement	4	1
BTB343	Introduction to Professions	3	1
BTB344	Oral Presentation	3	1
BTB345	Introduction to Ecology	8	4

Year 2, Semester 2

BTB401	The Human Environment IV	4	2
BTB400	Design II	20	6
BTB414	Population & Urban Studies	6	3
BTB440	Introduction to Economics	2	1
BTB408	Design Science	4	2
BTB409	Computer Techniques	4	2
BTB411	Landscape Ecology	8	3

Year 3, Semester 1

BTB511	Landscape Construction	6	3
BTB500	Design III	20	6
BTB546	Land Development I	8	3
BTB562	Report Preparation	2	1
BTB565	Landscape Graphics	6	2
BTB547	Land Use Generation	4	2
BTB442	Quantities & Costs	2	1

Year 3, Semester 2

BTB609	Law of the Built Environment	4	2
BTB600	Design IV	20	6
BTB647	Land Use Policies	4	2
BTB645	Grading	4	2
BTB640	Planting Design	3	1
BTB649	Conservation Theory	2	1
BTB643	Issues & Ethics	2	1
BTB659	Impacts & Assessment	5	2
BTB651	Elective (Landscape Architecture)	4	2

URBAN AND REGIONAL PLANNING MAJOR

Year 1, Semester 1

BTB101	The Human Environment I	4	2
BTB102	History of the Built Environment I	6	3
PHB144	Applied Science for Designers I	6	3
CMB116	Writing for Designers I	4	2
BTB100	Introductory Design I	16	8
BTB135	Map & Air Photo Interpretation	2	1
MAB195	Quantitative Methods I	6	3
BTB113	Environmental Science	4	2

Year 1, Semester 2

BTB201	The Human Environment II	4	2
BTB202	History of the Built Environment II	10	5
BTB204	Applied Science for Designers II	4	2

BTB209	Applied Land Science for Designers	2	1
CMB117	Writing for Designers II	4	2
BTB200	Introductory Design II	18	8
MAB196	Quantitative Methods II	6	3

Year 2, Semester 1

BTB301	The Human Environment III	6	3
BTB300	Design I	18	8
BTB340	Site Measurement	4	1
BTB343	Introduction to Professions	3	1
BTB344	Oral Presentation	3	1
BTB346	Graphic Communication	6	3
BTB345	Introduction to Ecology	8	4

Year 2, Semester 2

BTB401	The Human Environment IV	4	2
BTB408	Design Science	4	2
BTB400	Design II	20	6
BTB414	Population & Urban Studies	6	3
BTB440	Introduction to Economics	2	1
BTB409	Computer Techniques	4	2
BTB411	Landscape Ecology	8	3

Year 3, Semester 1

BTB500	Design III	20	6
BTB546	Land Development I	8	3
BTB561	Economics of Town Planning	3	1
BTB562	Report Preparation	2	1
BTB563	Transport Planning	5	2
BTB547	Land Use Generation	4	2
BTB654	Elective (Planning)	4	2
BTB442	Quantities & Costs	2	1

Year 3, Semester 2

BTB609	Law of the Built Environment	4	2
BTB600	Design IV	20	6
BTB646	Land Development II	7	3
BTB647	Land Use Policies	4	2
BTB656	Housing & Community Services	4	2
BTB649	Conservation Theory	2	1
BTB643	Issues & Ethics	2	1
BTB650	Impacts & Assessment	5	2

Bachelor of Applied Science – Construction Management (BGJ201)

Location: Gardens Point campus

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

Total Credit Points: 289

Standard Credit Points/Full-Time Semester: 48.17

Course Coordinator: Mr Gary Thomas

Special Course Requirement

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 5 pm and 9.30 pm.

Subjects are offered only once each year. This means that full-time students will be 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			
BGB151	Construction I	12	6
CMB134	Communications	4	2
BGB342	Law 2 - Principles & Property	3	1.5
MNB007	Behavioural Science	6	3
MAB297	Mathematics for Construction	4	2
SVB101	Surveying & Measuring	4	2
BGB103	Material Science I	4	2
BGB143	Structures I	4	2
Year 1, Semester 2			
BGB154	Construction II	14	7
BGB345	Hygiene & Sanitation	6	3
BGB343	Economics of the Construction Industry	4	2
BGB131	Measurement of Construction IA	6	3
SVB203	Project Survey	4	2
ISB180	Computer Applications	4	2
BGB104	Material Science II	4	2
BGB144	Structures II	4	2
Year 2, Semester 1			
BGB253	Construction III	10	5
BGB013	Building Services I - HVAC	4	2
BGB245	Measurement of Construction IB	6	3
BGB443	Building Services III	5	2.5
BGB440	Law 3 - Building Contracts*	3	1
BGB403	Building Management I	4	2
BGB442	Valuations & Dilapidations*	4	2
BGB601	Formwork Design & Construction	4	2
BGB247	Material Science III	4	2
BGB257	Structures III	4	2
Year 2, Semester 2			
BGB254	Construction IV	12	6
BGB243	Law 1 - Building Acts & Regulations	5	2
BGB014	Building Services II - Electrical	4	2
BGB246	Measurement of Construction IIB	8	4
BGB440	Law 3 - Building Contracts*	3	1
BGB446	Estimating I	5	2.5
BGB404	Building Management II	4	2
BGB442	Valuations & Dilapidations*	2	1

* *Subject extends over two semesters.*

BGB405	Project Equipment & Safety	4	2
BGB258	Structures IV	4	2

Year 3, Semester 1

BGB540	Estimating II	5	2.5
BGB444	Mechanical & Electrical Estimating	4	2
	OR Elective		
ACB281	Building Financial Management I	4	2
BGB529	PM2- Quantitative Techniques	5	2.5
BGB547	PM3- Construction Planning Techniques I	5	2.5
BGB341	Building & Civil Engineering Construction	4	2

Year 3, Semester 2

BGB543	Law 4 - Torts & Arbitrations	3	1.5
BGB301	PM1 - Advanced Construction Methods	4	2
BGB406	Building Financial Management II	4	2
BGB548	PM4 - Construction Planning Techniques II	8	4
BGB550	PM5 - Project Cost Control	6	3

Year 4, Semester 1

CEB701	Civil Engineering Quantities I	4	2
	OR Elective		
BGB656	Bnilding Research*	8	4
BGB642	Applied Computer Techniques	6	3
MNB018	Industrial Relations	4	2
BGB623	PM6 - Building Development Techniques I	4	2

Year 4, Semester 2

BGB656	Building Research*	10	5
BGB401	Building Economics & Cost Planning	4	2
BGB643	Law 5 - Commercial Law	3	1.5
	OR Elective		
BGB624	PM7 - Building Development Techniques II	4	2
BGB606	PM8 - Land Development Studies	4	2

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk

Year 1, Semester 1

BGB151	Construction I	12	6
MAB297	Mathematics for Construction	4	2
BGB103	Material Science I	4	2
BGB143	Structures I	4	2

Year 1, Semester 2

BGB154	Construction II	14	7
ISB180	Computer Applications	4	2
BGB104	Material Science II	4	2
BGB144	Structures II	4	2

Year 2, Semester 1

BGB253	Construction III	10	5
CMB134	Communications	4	2
BGB247	Material Science III	4	2
BGB005	Measurement of Construction I	6	3
BGB257	Structures III	4	2

Year 2, Semester 2

BGB254	Construction IV	12	6
BGB243	Law 1 - Building Acts & Regulations	5	2

* *Subject extends over two semesters.*

BGB006	Measurement of Construction II	6	3
BGB258	Structures IV	4	2

Year 3, Semester 1

BGB013	Building Services I - HVAC	4	2
BGB341	Building & Civil Engineering Construction	4	2
BGB342	Law 2 - Principles & Property	3	1.5
MNB007	Behavioural Science	6	3
SVB101	Surveying & Measuring	4	2
BGB009	Measurement of Construction III	4	2

Year 3, Semester 2

BGB014	Building Services II - Electrical	4	2
BGB345	Hygiene & Sanitation	6	3
BGB405	Project Equipment & Safety	4	2
SVB203	Project Survey	4	2
BGB010	Measurement of Construction IV	4	2

Year 4, Semester 1

BGB443	Building Services III	5	2.5
BGB440	Law 3 - Building Contracts*	3	1
BGB403	Building Management I	4	2
BGB442	Valuations & Dilapidations*	4	2
BGB601	Formwork Design & Construction	4	2
BGB444	Mechanical & Electrical Estimating	4	2
	OR Elective		

Year 4, Semester 2

BGB440	Law 3 - Building Contracts*	3	1
BGB446	Estimating I	5	2.5
BGB404	Building Management II	4	2
BGB442	Valuations & Dilapidations*	2	1
BGB301	PM1 - Advanced Construction Methods	4	2
BGB343	Economics of the Construction Industry	4	2
	OR Elective		

Year 5, Semester 1

BGB540	Estimating II	5	2.5
ACB281	Building Financial Management I	4	2
BGB529	PM2 - Quantitative Techniques	5	2.5
BGB547	PM3 - Construction Planning Techniques I	5	2.5
CEB701	Civil Engineering Quantities	4	2
	OR Elective		

Year 5, Semester 2

BGB406	Building Financial Management II	4	2
BGB550	PM5 - Project Cost Control	6	3
BGB548	PM4 - Construction Planning Techniques II	8	4
BGB543	Law 4 - Torts & Arbitration	3	1.5
BGB401	Building Economics & Cost Planning	4	2

Year 6, Semester 1

BGB656	Building Research*	8	4
BGB642	Applied Computer Techniques	6	3
MNB018	Industrial Relations	4	2
BGB623	PM6 - Building Development Techniques I	4	2

Year 6, Semester 2

BGB656	Building Research*	10	5
BGB643	Law 5 - Commercial Law	3	1.5
	OR Elective		

* *Subject extends over two semesters.*

BGB624	PM7 - Building Development Techniques II	4	2
BGB606	PM8 - Land Development Studies	4	2

Bachelor of Applied Science – Property Economics (BGJ258)

Location: Gardens Point campus

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

Total Credit Points: 299

Standard Credit Points/Full-Time Semester: 49.83

Course Coodinator: Mr Terry Boyd

Professional Recognition

Completion of the undergraduate course together with the related experience requirements will make a graduate eligible for membership with the following professional institutions: Society of Land Economics, Australian Institute of Valuers, and Council of Auctioneers and Agents.

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 5 pm and 9.30 pm.

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

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BGB161	Building Studies I	14	5.5
MAB298	Mathematics & Statistics	4	2
CMB134	Communications	4	2
MNB251	Macroeconomic Analysis	12	3
BGB263	Valuations I	5	2
BGB342	Law 2 - Principles & Property	3	1.5
SVB101	Surveying & Measuring	4	2
BGB367	Real Estate - Accounting I	4	2
BTB663	Urban Planning I	4	2
Year 1, Semester 2			
BGB162	Building Studies II	9	3.5
BGB166	Urban Economics	4	2
ISB180	Computer Applications	4	2
BGB164	Building Services IA	6	2.5
BGB268	Valuations II	7	3
LPB441	Urban Planning II	4	2
BGB368	Real Estate - Accounting II	7	3
BGB362	Property Marketing	7	3

Year 2, Semester 1

BGB261	Building Studies III	12	5
BGB363	Valuations III	5	2
MNB007	Behavioural Science	6	3
BGB465	Investment Decisions & Financial Strategy I	7	3
BGB440	Law 3 - Building Contracts*	3	1
BGB665	Property Management I	8	3
BGB668	Law 6 - Valuation of Land	4	2

Year 2, Semester 2

BGB262	Building Studies IV	12	5
BGB666	Property Management II	8	3
BGB626	Land Development Studies	4	2
BGB364	Valuations IV	7	3
BGB464	Valuations V - Rural	7	3
BGB466	Investment Decisions & Financial Strategy II	8	3
BGB440	Law 3 - Building Contracts*	3	1
BGB643	Law 5 - Commercial Law	3	1.5

Year 3, Semester 1

BGB561	Property Maintenance I	4	2
BGB563	Valuations - Advanced I	5	2
BGB565	Time Management	8	3
BGB569	Project Cost Management I	5	2
BGB567	Real Estate Practice I	4	2
BGB661	Elective Research Project I	8	4
BGB663	Project Development Process I	5	2
BGB361	Building Services IIA	10	4
LPB444	Urban Planning III	5	2

Year 3, Semester 2

BGB562	Property Maintenance II	6	3
BGB564	Valuations - Advanced II	5	2
BGB543	Law 4 - Torts & Arbitration	3	1.5
BGB568	Real Estate Practice II	5	2.5
BGB662	Elective Research Project II	8	4
BGB664	Project Development Process II	5	2
BGB667	Applied Computer Techniques	6	3
BGB264	Building Services IIIA	3	1.5
BGB243	Law 1 - Building Acts & Regulations	5	2

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk

Year 1, Semester 1

BGB161	Building Studies I	14	5.5
MAB298	Mathematics & Statistics	4	2
MNB251	Macroeconomic Analysis	12	3

Year 1, Semester 2

BGB162	Building Studies II	9	3.5
BGB164	Building Services IA	6	2.5
BGB166	Urban Economics	4	2
ISB180	Computer Applications	4	2

Year 2, Semester 1

BGB261	Building Studies III	12	5
CMB134	Communications	4	2
BGB263	Valuations I	5	2
BGB342	Law 2 - Principles & Property	3	1.5

* *Subject extends over two semesters.*

Year 2, Semester 2

BGB262	Building Studies IV	12	5
BGB268	Valuations II	7	3
BGB362	Property Marketing	7	3
BGB626	Land Development Studies	4	2

Year 3, Semester 1

BGB361	Building Services IIA	10	4
BTB663	Urban Planning I	4	2
BGB363	Valuations III	5	2
BGB367	Real Estate - Accounting I	4	2

Year 3, Semester 2

BGB264	Building Services IIIA	3	1.5
BGB364	Valuations IV	7	3
BGB368	Real Estate - Accounting II	7	3
LPB441	Urban Planning II	4	2

Year 4, Semester 1

LPB444	Urban Planning III	5	2
MNB007	Behavioural Science	6	3
BGB465	Investment Decisions & Financial Strategy I	7	3
BGB440	Law 3 - Building Contracts*	3	1
SVB101	Surveying & Measuring	4	2

Year 4, Semester 2

BGB440	Law 3 - Building Contracts*	3	1
BGB464	Valuations V - Rural	7	3
BGB466	Investment Decisions & Financial Strategy II	8	3
BGB543	Law 4 - Torts & Arbitration	3	1.5
BGB643	Law 5 - Commercial Law	3	1.5

Year 5, Semester 1

BGB561	Property Maintenance I	4	2
BGB563	Valuations - Advanced I	5	2
BGB565	Time Management	8	3
BGB569	Project Cost Management I	5	2
BGB567	Real Estate Practice I	4	2

Year 5, Semester 2

BGB562	Property Maintenance II	6	3
BGB564	Valuations - Advanced II	5	2
BGB568	Real Estate Practice II	5	2.5
BGB243	Law 1 - Building Acts & Regulations	5	2

Year 6, Semester 1

BGB661	Elective Research Project I	8	4
BGB663	Project Development Process I	5	2
BGB665	Property Management I	8	3
BGB668	Law 6 - Valuation of Land	4	2

Year 6, Semester 2

BGB662	Elective Research Project II	8	4
BGB664	Project Development Process II	5	2
BGB666	Property Management II	8	3
BGB667	Applied Computer Techniques	6	3

* *Subject extends over two semesters.*

Bachelor of Applied Science – Quantity Surveying (BGJ200)

Location: Gardens Point campus

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

Total Credit Points: 281

Standard Credit Points/Full-Time Semester: 46.83

Course Coordinator: Mr Don Campbell-Stewart

Professional Recognition

Completion of the Bachelor of Applied Science – Quantity Surveying, together with the related experience requirements, will enable a graduate to be eligible for membership of the Australian Institute of Quantity Surveying.

Special Course Requirement

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 years 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 5 pm and 9.30 pm.

Subjects are offered only once each year. This means that full-time students will be 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			
BGB151	Construction I	12	6
CMB134	Communications	4	2
BGB342	Law 2 - Principles & Property	3	1.5
MAB297	Mathematics for Construction	4	2
SVB101	Surveying & Measuring	4	2
BGB442	Valuations & Dilapidations*	4	2
BGB103	Material Science I	4	2
BGB143	Structures I	4	2
ACB281	Building Financial Management I	4	2
Year 1, Semester 2			
BGB154	Construction II	14	7
BGB345	Hygiene & Sanitation	6	3
BGB343	Economics of the Construction Industry	4	2
BGB131	Measurement of Construction IA	6	3
ISB180	Computer Applications	4	2
BGB442	Valuations & Dilapidations*	2	1
BGB104	Material Science II	4	2
BGB144	Structures II	4	2

* *Subject extends over two semesters.*

Year 2, Semester 1

BGB253	Construction III	10	5
BGB013	Building Services I - HVAC	4	2
BGB245	Measurement of Construction IB	6	3
BGB443	Building Services III	5	2.5
BGB440	Law 3 - Building Contracts*	3	1
BGB403	Building Management I	4	2
BGB341	Building & Civil Engineering Construction	4	2
BGB247	Material Science III	4	2
BGB529	PM2 - Quantitative Techniques	5	2.5

Year 2, Semester 2

BGB254	Construction IV	12	6
BGB243	Law 1 - Building Acts & Regulations	5	2
BGB014	Building Services II - Electrical	4	2
BGB246	Measurement of Construction IIB	8	4
BGB440	Law 3 - Building Contracts*	3	1
BGB446	Estimating I	5	2.5
BGB404	Building Management II	4	2
BGB543	Law 4 - Torts & Arbitrations	3	1.5
BGB643	Law 5 - Commercial Law	3	1.5
	OR Elective		

Year 3, Semester 1

BGB540	Estimating II	5	2.5
BGB547	PM3 - Construction Planning Techniques I	5	2.5
BGB444	Mechanical & Electrical Estimating	4	2
	OR Elective		
MNB018	Industrial Relations	4	2
BGB461	Measurement of Construction V	3	1.5
BGB451	Computer Software Applications I	4	2

Year 3, Semester 2

BGB520	Specification	3	1.5
BGB301	PM1 - Advanced Construction Methods	4	2
BGB406	Building Financial Management II	4	2
BGB526	Post Contract Services I	5	2.5
BGB552	Office Management	2	1
BGB462	Measurement of Construction VI	3	1.5
BGB524	Measurement of Construction VII	4	2

Year 4, Semester 1

CEB701	Civil Engineering Quantities I	4	2
BGB656	Building Research*	8	4
BGB653	Post Contract Services II	5	2.5
BGB623	PM6 - Building Development Techniques I	4	2
BGB647	Cost Planning & Cost Control I	4	2

Year 4, Semester 2

CEB801	Civil Engineering Quantities II	3	1.5
BGB656	Building Research*	10	5
BGB452	Computer Software Applications II	4	2
BGB624	PM7 - Building Development Techniques II	4	2
BGB648	Cost Planning & Cost Control II	6	3

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk

Year 1, Semester 1

BGB151	Construction I	12	6
MAB297	Mathematics for Construction	4	2

* *Subject extends over two semesters.*

BGB103	Material Science I	4	2
BGB143	Structures I	4	2

Year 1, Semester 2

BGB154	Construction II	14	7
ISB180	Computer Applications	4	2
BGB104	Material Science II	4	2
BGB144	Structures II	4	2

Year 2, Semester 1

BGB253	Construction III	10	5
CMB134	Communications	4	2
BGB005	Measurement of Construction I	6	3
BGB247	Material Science III	4	2

Year 2, Semester 2

BGB254	Construction IV	12	6
BGB243	Law 1 - Building Acts & Regulations	5	2
BGB006	Measurement of Construction II	6	3

Year 3, Semester 1

BGB013	Building Services I -HVAC	4	2
BGB341	Building & Civil Engineering Construction	4	2
BGB342	Law 2 - Principles & Property	3	1.5
BGB442	Valuations & Dilapidations*	4	2
SVB101	Surveying & Measuring	4	2
BGB009	Measurement of Construction III	4	2

Year 3, Semester 2

BGB014	Building Services II - Electrical	4	2
BGB343	Economics of the Construction Industry OR Elective	4	2
BGB345	Hygiene & Sanitation	6	3
BGB442	Valuations & Dilapidations*	2	1
BGB520	Specification	3	1.5
BGB010	Measurement of Construction IV	4	2

Year 4, Semester 1

BGB443	Building Services III	5	2.5
BGB440	Law 3 - Building Contracts*	3	1
CEB701	Civil Engineering Quantities I	4	2
BGB403	Building Management I	4	2
BGB451	Computer Software Applications I	4	2
BGB461	Measurement of Construction V	3	1.5

Year 4, Semester 2

BGB440	Law 3 - Building Contracts*	3	1
CEB801	Civil Engineering Quantities II	3	1.5
BGB446	Estimating I	5	2.5
BGB404	Building Management II	4	2
BGB301	PM1 - Advanced Construction Methods	4	2
BGB462	Measurement of Construction VI	3	1.5

Year 5, Semester 1

BGB540	Estimating II	5	2.5
ACB281	Building Financial Management I	4	2
BGB529	PM2 - Quantitative Techniques	5	2.5
BGB547	PM3 - Construction Planning Techniques I	5	2.5
BGB444	Mechanical & Electrical Estimating OR Elective	4	2

* *Subject extends over two semesters.*

Year 5, Semester 2

BGB406	Building Financial Management II	4	2
BGB526	Post Contract Services I	5	2.5
BGB543	Law 4 - Torts & Arbitration	3	1.5
BGB643	Law 5 - Commercial Law	3	1.5
	OR Elective		
BGB552	Office Management	2	1
BGB524	Measurement of Construction VII	4	2

Year 6, Semester 1

BGB656	Building Research*	8	4
MNB018	Industrial Relations	4	2
BGB653	Post Contract Services II	5	2.5
BGB623	PM6 - Building Development Techniques I	4	2
BGB647	Cost Planning & Cost Control I	4	2

Year 6, Semester 2

BGB656	Building Research*	10	5
BGB452	Computer Software Applications II	4	2
BGB624	PM7 - Building Development Techniques II	4	2
BGB648	Cost Planning & Cost Control II	6	3

Bachelor of Architecture (ARJ192)

Location: Gardens Point campus

Course Duration: 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Assoc. Professor Bill Lim

Professional Recognition

On completion of the course and one year's postgraduate practical experience a graduate will be eligible for associate membership of the Royal Australian Institute of Architects and will be 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 in one full academic 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.

(ii) A student who is admitted with advanced standing and who is granted exemption from all subjects in the first three years of the course may be granted exemption from the subject ARB791 Approved Employment I.

* *Subject extends over two semesters.*

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ARB191	The Human Environment	4	2
ARB197	History of the Built Environment I	2	1
ARB189	Writing for Designers I	4	2
ARB193	Design I	10	5
ARB195	Technology I	4	2
Year 1, Semester 2			
ARB192	The Human Environment II	4	2
ARB198	History of the Built Environment II	2	1
ARB190	Writing for Designers II	4	2
ARB194	Design II	10	5
ARB196	Technology II	4	2
Year 2, Semester 1			
ARB291	The Human Environment III	4	2
ARB293	Design III	10	5
ARB297	Principles of Structures I	2	1
ARB295	Building Construction I	4	2
ARB289	Design Science I	2	1
ARB299	Introduction to Computing I	2	1
Year 2, Semester 2			
ARB292	The Human Environment IV	4	2
ARB294	Design IV	8	4
ARB296	Building Construction II	4	2
ARB288	Design Science II	2	1
ARB298	Principles of Structures II	4	2
ARB290	Introduction to Computing II	2	1
Year 3, Semester 1			
ARB393	Design V	10	5
ARB391	Building Services I	4	2
ARB395	Building Construction III	2	1
ARB397	Principles of Structures III	4	2
ARB389	Design Science III	2	1
ARB387	Environmental Impact Studies	2	1
Year 3, Semester 2			
ARB386	Law of the Built Environment	4	2
ARB394	Design VI	8	4
ARB392	Building Services II	4	2
ARB396	Building Construction IV	2	1
ARB398	Principles of Structures IV	4	2
ARB388	Design Science IV	2	1
Year 4, Semester 1			
ARB491	History of Architecture & Art III*	2	1
ARB493	Design VII*	10	5
ARB497	Advanced Technology*	4	2
ARB495	Professional Studies I*	8	4
Year 4, Semester 2			
ARB491	History of Architecture & Art III*	2	1
ARB493	Design VII*	10	5
ARB497	Advanced Technology*	4	2
ARB495	Professional Studies I*	8	4

* *Subject extends over two semesters.*

Year 5, Semester 1

ARB591	History of Architecture & Art IV*	2	1
ARB597	Elective I*	4	2
ARB593	Design VIII*	10	5
ARB595	Professional Studies II*	8	4

Year 5, Semester 2

ARB591	History of Architecture & Art IV*	2	1
ARB597	Elective I*	4	2
ARB593	Design VIII*	10	5
ARB595	Professional Studies II*	8	4

Year 6, Semester 1

ARB697	Elective II*	2	1
ARB693	Design IX	18	9
ARB695	Professional Studies III*	4	2

Year 6, Semester 2

ARB697	Elective II*	20	7
ARB695	Professional Studies III*	4	2

Approved Employment Subjects

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

Special notes relating to all undergraduate courses in Engineering, Surveying and Cartography

Attendance Requirement

A student who, in any subject, fails to attend 80 per cent of the total instruction, or to submit 80 per cent of all practical or assignment work required in any subject, may be deemed by the Dean of the Faculty ineligible to sit for the semester examination.

Field Trips

Field trips or field projects have a compulsory attendance requirement.

Honours and With Distinction

Honours may be awarded in the four-year Bachelor of Engineering courses. First class honours, second class honours division A and second class honours division B may be awarded. Candidates for a degree with honours must fulfil the requirements for a pass degree and achieve a standard of proficiency in all course subjects as may from time to time be determined by the Faculty Academic Board and approved by Academic Committee.

With distinction may be awarded in the Bachelor of Applied Science – Surveying course and in the Associate Diploma courses. The award with distinction depends on proficiency shown in normal assessment for each course offered. There are no additional requirements.

Honours Based on Honours Index

Students completing their degree in 1990 and 1991 will have their honours calculation based on the honours index program. Some of the rules applying to this are outlined.

* *Subject extends over two semesters.*

The honours index is based on marks achieved by the student in subjects throughout the whole course, but taking into account only 30 per cent (by hours) of the best subjects in the first year full-time program, 60 per cent (by hours) of subjects in the second year full-time program, and

- all subjects in the third and fourth years of the Bachelor of Engineering programs
- all subjects other than business subjects in the third, fourth and fifth years of the Bachelor of Engineering/Bachelor of Business – Manufacturing Systems and Management
- all subjects other than information technology subjects in the third, fourth and fifth years of the Bachelor of Engineering/Bachelor of Applied Science – Electronics and Computing.

For single degree engineering courses, cut-off lines are determined by the relevant school so that on an average over the last four years, 10 per cent of graduates in each course can be expected to achieve first class honours, an additional 10 per cent achieve second class honours division A, and a further 10 per cent achieve second class honours division B.

For double degree courses which include engineering, the cut-off will be determined by the cut-offs in the appropriate single degree engineering course.

With Distinction Based on the With Distinction Index

Students completing their course in 1990 and 1991 will have with distinction awarded according to the with distinction program. Subjects are weighted to reflect the time content of the subject within the course. Actual percentages obtained in subjects are taken to measure the level of achievement in subjects.

A student with exemptions in more than 30 per cent of subjects used in the calculation of with distinction awards is not normally eligible for the award. Such a student may be permitted to take such extra subjects or electives as the Engineering Academic Board deems fit or may be referred to the Engineering Academic Board for special consideration.

The with distinction index is based on the best 70 per cent (by hours) of a student's results for all relevant subjects in the course.

The graduand must normally complete the course in minimum time, but may not receive the award with distinction if the completion time is greater than three years for the full-time associate diplomas, six years for the part-time associate diplomas or the equivalent of eight stages for the BAppSc (Surveying).

Cut-off lines are determined for each course so that on a long-term average 20 percent of the graduates in each course can be expected to be granted awards with distinction.

Honours and With Distinction Based on Grade Point Average

The Engineering Academic Board has resolved that honours and with distinction for students graduating in 1992 and thereafter will be based on grades achieved by students throughout the whole of their course as determined by the Grade Point Average calculation.

For the four-year Bachelor of Engineering courses, students obtaining a GPA of 6.0 or greater will normally qualify for the award of first class honours. Students obtaining a GPA of 5.5 to 5.99 will normally qualify for the award of second class honours division A. Students obtaining a GPA of 5.0 to 5.49 will normally qualify for the award of second class honours division B.

For double degree engineering courses, the students' GPA will be based on the engineering subjects which they study together with sufficient subjects from the other degree course to make up approximately the same number and type (where possible) of subjects so that the aggregate of subjects, as determined by the Dean, is equivalent to the appropriate engineering degree. Students obtaining a GPA (for the group of subjects as set out in the previous sentence) of 6.0 or greater will normally qualify for the award of first class honours. Students obtaining a GPA of 5.5 to 5.99 will normally qualify for the award of second class honours division A. Students obtaining a GPA of 5.0 to 5.49 will normally qualify for the award of second class honours division B.

For the award of with distinction, students with a GPA of 5.5 or greater will be eligible for the with distinction award compared to the best 20 per cent previously.

Students who commenced their program prior to 1990 may appeal against the award of honours or with distinction based on GPA if they feel they have been disadvantaged by the new system.

Special notes relating to Bachelor of Engineering courses

Industrial Experience

A student shall have engaged in at least five weeks' approved employment in conjunction with each of first, second and third years of the full-time course or first, third and fifth years of the part-time course.

As a *minimum* requirement any employment is suitable for credit towards Industrial Experience I. Employment in any engineering firm may be credited towards Industrial Experience II whilst the requirement for Industrial Experience III is that employment must be obtained in the specialty engineering area being studied ie civil, electrical or mechanical engineering.

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 outside Room 'O' 610. In addition Civil Engineering students must submit written report(s) covering the experience claimed for Industrial Experience II and Industrial Experience III. A booklet outlining the requirements is available from the Civil Engineering office in 'L' Block.

Exemptions

A part-time student who is in an appropriate occupation may make written application to be exempted from the following subjects if offered in the particular course chosen.

Design Project	Civil Engineering I
Group A Subject	Electrical Engineering I
Seminars	Manufacturing I
Seminars and Technical Communication	Industrial Visits
Field Trip	Design I (Mechanical)

Bachelor of Applied Science – Surveying (SVJ159)*

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 288

* *See Special Notes, page 243.*

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Bruce Chapman

Professional Recognition

Eligibility for registration by the Surveyors Board of Queensland. Recognised as satisfying the academic requirements for admission as a member of both the Institution of Surveyors (Australia) and the Australian Institute of Cartographers.

Special Course Requirement

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 submit details of the work experience on an industrial experience record form or diaries provided for the purpose and 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 Board of Surveyors.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MAB199	Survey Mathematics I	12	6
SVB121	Land Surveying I	13	6
SVB111	Data Presentation I	6	3
CSB294	Computer Programming	6	3
SVB352	Land Studies A*	6	3
SVB282	Seminar I	5	2
Year 1, Semester 2			
MAB495	Survey Mathematics II	12	6
SVB226	Land Surveying II	13	6
SVB270	Land Administration I	6	3
MAB499	Basic Statistics for Surveyors	5	2
SVB211	Data Presentation II	6	3
SVB352	Land Studies A*	6	3
SVB199	Industrial Experience I		6 weeks

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			
SVB393	Land Surveying III	10	5
PHB170	Physics for Surveyors	12	6
MAB795	Survey Mathematics III	6	3
SVB573	Land Administration III	6	3
SVB331	Observations & Adjustments I	4	2
SVB311	Data Presentation III	5	3
SVB473	Land Information Systems I	5	3
Year 2, Semester 2			
SVB430	Land Surveying IV	9	4
SVB442	Geodetic Computations	9	4
SVB343	Photogrammetry I	6	3
CEB364	Engineering Science II	6	3
SVB431	Observations & Adjustments II	4	2
SVB574	Land Administration IV	4	2

* *Subject extends over two semesters.*

SVB412	Cartographic Practice	5	3
SVB451	Land Studies B	5	3
SVB299	Industrial Experience II		6 weeks

Year 3, Semester 1

SVB561	Land Development Practice I	10	6
SVB551	Land Valuation	6	3
SVB535	Land Surveying V	5	3
SVB571	Cadastre	4	2
SVB443	Photogrammetry II	11	6
SVB563	Land Information Systems II	4	2
SVB683	Project*	4	1
SVB470	Land Administration II	4	2

Year 3, Semester 2

SVB680	Professional Practice	6	3
SVB682	Seminar II	2	1
SVB683	Project*	4	1
SVB636	Land Surveying VI	6	3
SVB640	Geodesy	6	3
SVB639	Observations & Adjustment III	4	2
SVB664	Land Development Practice II	10	6
SVB399	Industrial Experience III		6 weeks
	TWO Elective Subjects	10	6

CARTOGRAPHY MAJOR

Year 2, Semester 1

MAB795	Survey Mathematics III	6	3
PHB170	Physics for Surveyors	12	6
SVB573	Land Administration III	6	3
SVB331	Observations & Adjustments I	4	2
SVB311	Data Presentation III	5	3
ARB911	Graphic Design I	10	5
SVB473	Land Information Systems I	5	3

Year 2, Semester 2

SVB451	Land Studies B	5	3
SVB442	Geodetic Computations	9	4
SVB343	Photogrammetry I	6	3
SVB431	Observations & Adjustments II	4	2
SVB574	Land Administration IV	4	2
SVB412	Cartographic Practice	5	3
ARB912	Graphic Design II	9	4
SVB299	Industrial Experience II		6 weeks

Year 3, Semester 1

SVB561	Land Development Practice I	10	6
SVB443	Photogrammetry II	11	6
SVB470	Land Administration II	4	2
SVB563	Land Information Systems II	4	2
SVB571	Cadastre	4	2
SVB685	Project*	8	4

Year 3, Semester 2

SVB680	Professional Practice	6	3
SVB682	Seminar II	2	1
SVB639	Observations & Adjustments III	4	2
SVB664	Land Development Practice II	10	6
SVB685	Project*	8	4
SVB399	Industrial Experience III		6 weeks
	TWO Elective Subjects	10	6

* *Subject extends over two semesters.*

Electives

SVB670	Land Administration V	5	3
SVB684	Map Production Planning	5	3
CEB504	Engineering Science III	5	3
SVB694	Geodesy II	5	3
SVB634	Topics in Engineering Surveying	5	3
SVB643	Photogrammetry III	5	3
SVB645	Remote Sensing	5	3

■ Bachelor of Engineering – Civil (CEJ156)*

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 Rod Troutbeck

Professional Recognition

Membership: The Institution of Engineers, Australia

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
PHB132	Engineering Physics IA	6	3
MAB193	Engineering Mathematics I+	6	3
CSB191	Introduction to Computing	4	2
CEB102	Civil Engineering I	3	1.5
CEB184	Engineering Mechanics I	7	3
MEB121	Engineering Graphics	6	3
MEB171	Introduction to Manufacturing	3	1.5
EEB101	Circuits & Measurements	7	3
CMB108	English for Technologists	6	3
CHB002	Introduction to Engineering Chemistry#	(2)	(1)
Year 1, Semester 2			
PHB232	Engineering Physics IIA	6	3
CHB346	Engineering Chemistry C	4	2
MAB193	Engineering Mathematics I+	6	3
CSB291	Introduction to FORTRAN	4	2
CEB185	Engineering Mechanics II	7	3
MEB111	Dynamics	7	3
SVB306	Surveying I	8	3
MEB133	Materials I	6	3
CEB192	Industrial Experience I		5 weeks
Year 2, Semester 1			
MAB493	Engineering Mathematics II+	6	3
CEB282	Statics	2	1
CEB281	Strength of Materials	5	2

* *See Special Notes, page 243.*

\+ *Subject extends over two semesters.*

\# *CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Grade 12 Chemistry.*

CEB201	Steel Structures*	4	1.5
CEB202	Concrete Structures I*	4	1.5
CEB291	Civil Engineering Materials	7	3
CEB231	Concrete Technology	7	3
ESB519	Geology for Engineers	6	3
CEB260	Fluid Mechanics	7	3

Year 2, Semester 2+

MAB493	Engineering Mathematics II*	6	3
CEB220	Civil Systems I	6	3
CEB253	Structural Engineering I	5	3
CEB201	Steel Structures*	4	1.5
CEB202	Concrete Structures I*	4	1.5
CEB240	Soil Mechanics I	5	3
CEB360	Hydraulic Engineering I	6	3
CEB312	Highway Engineering	6	3
CEB393	Engineering Investigation & Reporting I	3	2
CEB404	Field Trip	3	1.5
CEB292	Industrial Experience II		5 weeks

Year 3, Semester 1

MAB893	Engineering Mathematics III	6	3
CEB354	Structural Engineering II	7	3
CEB306	Concrete Structures II	7	3
CEB241	Soil Mechanics II	7	3
CEB460	Hydraulic Engineering II	7	3
CEB307	Construction Practice	6	3
CEB304	Civil Engineering Design I*	8	4

Year 3, Semester 2

CEB355	Structural Engineering III	6	3
CEB440	Geotechnical Engineering I	6	3
CEB361	Hydrology	6	3
CEB313	Traffic Engineering	6	3
CEB370	Public Health Engineering I	6	3
CEB305	Construction Planning & Economics	6	3
CEB304	Civil Engineering Design I*	8	4
MNB004	Management	4	2
CEB392	Industrial Experience III		5 weeks
CEB421	Civil Systems II	3	1
CEB470	Public Health Engineering II	5	3
CEB430	Building Construction	3	2
CEB405	Civil Engineering Design II*	6	3
CEB401	Design Project	5	3
CEB492	Engineering Investigation & Reporting II	3	1
ACB482	Accounting Principles C	2	1
CEB491	Project (Civil)*	9	3
	TWO Elective Subjects	12	6

Year 4, Semester 2

CEB406	Structural Applications	8	3
CEB405	Civil Engineering Design II*	6	3
CEB403	Professional Practice	7	2
CEB491	Project (Civil)*	9	3
	THREE Elective Subjects	18	9

Electives

FIRST SEMESTER

CEB551	Advanced Structural Design	6	3
CEB541	Geotechnical Engineering II	6	3
CEB561	Coastal Engineering	6	3

* *Subject extends over two semesters.*

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

CEB512	Transport Engineering I	6	3
CEB503	Advanced Construction Methods	6	3
CEB501	Civil Engineering Practice I	6	3
SECOND SEMESTER			
CEB520	Finite Element Methods	6	3
CEB532	Concrete & Masonry Structures	6	3
CEB542	Geotechnical Engineering III	6	3
CEB560	Hydraulic Engineering III	6	3
CEB570	Public Health Engineering III	6	3
CEB511	Transport Engineering II	6	3
CEB505	Project Management & Administration	6	3
CEB506	Civil Engineering Practice II	6	3

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

Part-Time Course Structure		**Credit Points**	**Contact Hrs/Wk**
Year 1, Semester 1			
PHB132	Engineering Physics IA	6	3
MAB193	Engineering Mathematics I*	6	3
CEB102	Civil Engineering I	3	1.5
CEB184	Engineering Mechanics I	7	3
MEB121	Engineering Graphics	6	3
MEB171	Introduction to Manufacturing	3	1.5
CHB002	Introduction to Engineering Chemistry+	(2)	(1)
Year 1, Semester 2			
PHB232	Engineering Physics IIA	6	3
MAB193	Engineering Mathematics I*	6	3
CEB185	Engineering Mechanics II	7	3
MEB133	Materials I	6	3
MEB111	Dynamics	7	3
CEB192	Industrial Experience I		5 weeks
Year 2, Semester 1			
MAB493	Engineering Mathematics II*	6	3
CSB191	Introduction to Computing	4	2
CEB291	Civil Engineering Materials	7	3
CEB231	Concrete Technology	7	3
CMB108	English for Technologists	6	3
Year 2, Semester 2			
MAB493	Engineering Mathematics II*	6	3
CSB291	Introduction to FORTRAN	4	2
SVB306	Surveying	8	3
CEB253	Structural Engineering I	5	3
CEB281	Strength of Materials	5	2
CEB282	Statics	2	1
CEB404	Field Trip	3	1.5
Year 3, Semester 1			
MAB893	Engineering Mathematics III	6	3
CEB201	Steel Structures*	4	1.5
CEB202	Concrete Structures I*	4	1.5
ESB519	Geology for Engineers	6	3
CEB260	Fluid Mechanics	7	3
CEB307	Construction Practice	6	3

* *Subject extends over two semesters.*

\+ *CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Grade 12 Chemistry.*

Year 3, Semester 2

CHB346	Engineering Chemistry C*	4	2
CEB201	Steel Structures*	4	1.5
CEB202	Concrete Structures I*	4	1.5
CEB240	Soil Mechanics I	5	3
CEB360	Hydraulic Engineering I	6	3
CEB305	Construction Planning & Economics	6	3
CEB292	Industrial Experience II		5 weeks

Year 4, Semester 1

CEB220	Civil Systems I	6	3
EEB101	Circuits & Measurements	7	3
CEB354	Structural Engineering II	7	3
CEB241	Soil Mechanics II	7	3
CEB460	Hydraulic Engineering II	7	3

Year 4, Semester 2

CEB355	Structural Engineering III	6	3
CEB341	Geotechnical Engineering I	6	3
CEB361	Hydrology	6	3
CEB312	Highway Engineering	6	3
CEB370	Public Health Engineering I	6	3

Year 5, Semester 1

CEB421	Civil Systems II	3	1
CEB306	Concrete Structures II	7	3
CEB313	Traffic Engineering	6	3
CEB470	Public Health Engineering II	5	3
CEB304	Civil Engineering Design I*	8	4
CEB393	Engineering Investigation & Reporting I	3	2

Year 5, Semester 2

CEB401	Design Project	5	3
CEB430	Building Construction	3	2
CEB304	Civil Engineering Design I*	8	4
CEB492	Engineering Investigation & Reporting II	3	1
MNB004	Management	4	2
ACB482	Accounting Principles C	2	1
	ONE Elective Subject	6	3
CEB392	Industrial Experience III		5 weeks

Year 6, Semester 1

CEB406	Structural Applications	8	3
CEB405	Civil Engineering Design II*	6	3
CEB491	Project (Civil)*	9	3
	TWO Elective Subjects	12	6

Year 6, Semester 2

CEB405	Civil Engineering Design II*	6	3
CEB403	Professional Practice	7	2
CEB491	Project (Civil)*	9	3
	TWO Elective Subjects	12	6

Electives

Refer to Full-time Course Structure.

* *Subject extends over two semesters.*

Bachelor of Engineering – Electrical and Computer Engineering (EEJ157)*

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 David Birtwhistle

Professional Recognition

Membership: The Institution of Engineers, Australia
Institution of Radio and Electronics Engineers

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CHB002	Introduction to Engineering Chemistry#	(2)	(1)
MAB193	Engineering Mathematics I+	6	3
EEB101	Circuits & Measurements	7	3
CSB191	Introduction to Computing	4	2
PHB132	Engineering Physics IA	6	3
MEB121	Engineering Graphics	6	3
MEB171	Introduction to Manufacturing	3	1.5
CMB108	English for Technologists	6	3
CEB184	Engineering Mechanics I	7	3
CEB102	Civil Engineering I	3	1.5
Year 1, Semester 2			
MAB193	Engineering Mathematics I+	6	3
EEB202	Electromagnetics	6	3
CSB291	Introduction to FORTRAN	4	2
PHB232	Engineering Physics IIA	6	3
MEB111	Dynamics	7	3
EEB203	Circuit Analysis	5	3
EEB371	Electronic Devices	5	3
EEB272	Digital Principles	3	1.5
MEB133	Materials I	6	3
EEB206	Industrial Experience I		5 weeks
Year 2, Semester 1			
MAB493	Engineering Mathematics II+	6	3
EEB303	Network Theory I	7	3
EEB361	Signals & Systems	7	3
EEB471	Electronics	7	3
EEB372	Sequential Logic	7	3
CSB490	Software Engineering	6	3
EEB302	Electrotechnology	6	3
CMB135	Communication for Engineers	2	1
Year 2, Semester 2			
MAB493	Engineering Mathematics II+	6	3

* *See Special Notes, page 243.*

\+ *Subject extends over two semesters.*

\# *CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Grade 12 Chemistry.*

EEB401	Network Theory II	6	3
EEB472	Microprocessors	6	3
EEB520	Control Engineering	6	3
EEB561	Analogue Communications	6	3
EEB473	Integrated Circuits	6	3
EEB400	Electrical Power Systems	6	3
EEB430	Engineering Fields	6	3
EEB406	Industrial Experience II		5 weeks

Year 3, Semester 1

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

Year 3, Semester 2

EEB971	Applied Electronics	6	3
	OR		
EEB531	Electrical Power Transmission	6	3
EEB967	Digital Communications	6	3
EEB621	Advanced Control Systems	6	3
EEB602	Signal Processing	6	3
EEB601	Realtime Operating Systems	6	3
EEB788	Design II	8	3
MAB894	Engineering Mathematics IV	6	3
	ONE General Elective	4	2
EEB606	Industrial Experience III		5 weeks

Year 4, Semester 1

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

Year 4, Semester 2

EEB890	Advanced Information Technology Topics	8	3
	OR		
EEB741	Power Systems Analysis	8	3
EEB820	Engineering Management	8	3
EEB888	Design IV	10	3
EEB789	Project*	15	6
	ONE Technical Elective	7	3

General Electives

ACB480	Personal & Corporate Finance	4	2
EEB600	Starting a Technology Based Business	4	2
ENB103	General Elective	4	2
ISB393	Computer Based Information Systems	4	2
MNB002	Psychology for Engineers	4	2
MNB004	Management	4	2

* *Subject extends over two semesters.*

Technical Electives

EEB962	Microwave Systems Engineering	7	3
EEB961	Communications Techniques	7	3
EEB761	Statistical Communications	7	3
MAB920	Coding & Encryption Techniques	12	3
EEB972	Integrated Electronic Techniques	7	3
EEB922	Computer Controlled Systems	7	3
EEB951	High Voltage Equipment	7	3
EEB944	Power Station Engineering	7	3
EEB954	Electrical Energy Utilisation	7	3
	OR		
	Any alternative core subject not previously completed, or advanced subjects from Computing Science.		

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MAB193	Engineering Mathematics I*	6	3
CSB191	Introduction to Computing	4	2
PHB132	Engineering Physics IA	6	3
MEB121	Engineering Graphics	6	3
EEB101	Circuits & Measurements	7	3
CHB002	Introduction to Engineering Chemistry+	(2)	(1)
Year 1, Semester 2			
MAB193	Engineering Mathematics I*	6	3
PHB232	Engineering Physics IIA	6	3
CSB291	Introduction to FORTRAN	4	2
EEB203	Circuit Analysis	5	3
EEB371	Electronic Devices	5	3
EEB272	Digital Principles	3	1.5
EEB206	Industrial Experience I		5 weeks
Year 2, Semester 1			
MAB493	Engineering Mathematics II*	6	3
EEB303	Network Theory I	7	3
EEB361	Signals & Systems	7	3
CMB108	English for Technologists	6	3
EEB471	Electronics	7	3
Year 2, Semester 2			
EEB202	Electromagnetics	6	3
MAB493	Engineering Mathematics II*	6	3
EEB401	Network Theory II	6	3
MEB133	Materials I	6	3
MEB111	Dynamics	7	3
EEB406	Industrial Experience II		5 weeks
Year 3, Semester 1			
CEB102	Civil Engineering I	3	1.5
EEB372	Sequential Logic	7	3
CEB184	Engineering Mechanics I	7	3
MAB893	Engineering Mathematics III	6	3
EEB302	Electrotechnology	6	3
CMB135	Communication for Engineers	2	1

* *Subject extends over two semesters.*

\+ *CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Grade 12 Chemistry.*

Year 3, Semester 2

EEB472	Microprocessors	6	3
EEB520	Control Engineering	6	3
EEB400	Electrical Power Systems	6	3
EEB473	Integrated Circuits	6	3
MAB894	Engineering Mathematics IV	6	3
EEB606	Industrial Experience III		5 weeks

Year 4, Semester 1

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

Year 4, Semester 2

EEB561	Analogue Communications	6	3
EEB971	Applied Electronics	6	3
	OR		
EEB531	Electrical Power Transmission	6	3
EEB430	Engineering Fields	6	3
EEB602	Signal Processing	6	3
EEB601	Realtime Operating Systems	6	3

Year 5, Semester 1

MEB171	Introduction to Manufacturing	3	1.5
EEB661	Information Theory & Noise	6	3
	OR		
EEB553	Electrical Power Equipment	6	3
EEB562	Transmission & Propagation	6	3
EEB587	Design I	6	3
EEB968	Digital Signal Processing	7	3
	OR		
EEB742	Power Systems Engineering	7	3
EEB821	Production Technology & Quality	6	3

Year 5, Semester 2

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

Year 6, Semester 1

EEB887	Design III	6	3
EEB662	Microwave & Antenna Technology	7	3
	OR		
EEB652	Power Electronics	7	3
EEB789	Project*	15	6
	ONE Technical Elective	7	3

Year 6, Semester 2

EEB890	Advanced Information Technology Topics	8	3
	OR		
EEB741	Power Systems Analysis	8	3
EEB888	Design IV	10	3
EEB789	Project*	15	6
	ONE Technical Elective	7	3

Electives

Refer to Full-time Course Structure.

* *Subject extends over two semesters.*

Bachelor of Engineering – Mechanical and Manufacturing Engineering (MEJ158)*

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 R. Nicol/Dr D. Hargreaves

Professional Recognition
Membership: The Institution of Engineers, Australia

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CSB191	Introduction to Computing	4	2
MEB121	Engineering Graphics	6	3
EEB101	Circuits & Measurement	7	3
CEB102	Civil Engineering I	3	1.5
MEB171	Introduction to Manufacturing	3	1.5
MAB193	Engineering Mathematics I#	6	3
CEB184	Engineering Mechanics I	7	3
PHB132	Engineering Physics IA	6	3
CMB108	English for Technologists	6	3
CHB002	Introduction to Engineering Chemistry+	(2)	(1)
Year 1, Semester 2			
MEB111	Dynamics	7	3
CSB291	Introduction to FORTRAN	4	2
EEB202	Electromagnetics	6	3
CEB185	Engineering Mechanics II	7	3
MAB193	Engineering Mathematics I#	6	3
CHB344	Engineering Chemistry M	4	2
MEB101	Design I	8	3
MEB133	Materials I	6	3
MEB200	Industrial Experience I		5 weeks
Year 2, Semester 1			
MEB381	Design II	6	3
MEB361	Fluids I	6	3
MEB370	Manufacturing Systems I	6	3
MEB313	Mechanics I	6	3
MAB493	Engineering Mathematics II#	6	3
EEB209	Electrical Engineering IIM	6	3
MEB250	Thermodynamics I	6	3
MEB230	Materials II	6	3
Year 2, Semester 2			
MEB483	Design III	7	3
MEB231	Materials III	6	3
MEB251	Thermodynamics II	6	3
MAB493	Engineering Mathematics II#	6	3

* *See Special Notes, page 243.*

\+ *CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Grade 12 Chemistry.*

\# *Subject extends over two semesters.*

MEB462	Fluids II	6	3
MEB472	Manufacturing Systems II	6	3
MEB411	Theory of Machines	7	3
	ONE Group A Elective Subject	4	2
MEB300	Industrial Experience II		5 weeks

Year 3, Semester 1

MEB510	Noise & Vibrations	7	3
MAB893	Engineering Mathematics III	6	3
MEB550	Heat Transfer	6	3
MEB773	Design for Manufacturing I	7	3
MEB339	Materials & Manufacturing Project	6	3
MEB511	Stress Analysis	7	3
CMB136	Technical Writing	2	1
	ONE Group B Elective Subject	7	3

Year 3, Semester 2

MEB640	Automation I	7	3
MEB660	Fluid Power	6	3
MEB670	Industrial Engineering I	6	3
MEB650	Thermodynamics III	6	3
MEB463	Tribology	6	3
MEB610	Mechanics II	6	3
EEB273	Microcomputers in Engineering	4	2
	ONE Group C Elective Subject	7	3
MEB402	Industrial Experience III		5 weeks

Year 4, Semester 1

MEB464	Fluids III	7	3
MEB911	Finite Element Analysis	7	3
MEB489	Mechanical Design Project*	7	3
MEB771	Industrial Engineering II	6	3
MEB710	Automation II	7	3
MEB772	Engineering Project Appraisal	7	3
	ONE Group D Elective Subject	7	3

Year 4, Semester 2

MNB043	Industrial Management	6	3
ACB481	Financial Management for Engineers	6	3
MEB981	Design of Materials Handling Systems	6	3
MEB489	Mechanical Design Project*	7	3
MEB408	Project A (Mechanical)	16	6
	ONE Group E Elective Subject	7	3

Electives

GROUP A

ACB480	Personal & Corporate Finance	4	2
EEB600	Starting a Technology Based Business	4	2
ENB103	General Elective	4	2
ISB393	Computer Based Information Systems	4	2
MNB002	Psychology for Engineers	4	2

GROUP B

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

GROUP C

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

* *Subject extends over two semesters.*

GROUP D			
MEB977	Computer Control of Manufacturing Systems	7	3
MEB980	Design of Power Transmission Systems	7	3
MEB701	Special Topic III	7	3
GROUP E			
MEB975	Design of Manufacturing Systems	7	3
MEB960	Fluid System Design	7	3
MEB810	Industrial Noise & Vibration	7	3
MEB800	Special Topic IV	7	3

Part-Time Course Structure		**Credit Points**	**Contact Hrs/Wk**
Year 1, Semester 1			
MEB121	Engineering Graphics	6	3
CEB184	Engineering Mechanics I	7	3
MAB193	Engineering Mathematics I*	6	3
PHB132	Engineering Physics IA	6	3
CMB108	English for Technologists	6	3
CHB002	Introduction to Engineering Chemistry+	(2)	(1)
Year 1, Semester 2			
MEB133	Materials I	6	3
CEB185	Engineering Mechanics II	7	3
MAB193	Engineering Mathematics I*	6	3
MEB111	Dynamics	7	3
CHB344	Engineering Chemistry M	4	2
MEB200	Industrial Experience I		5 weeks
Year 2, Semester 1			
MEB230	Materials II	6	3
CSB191	Introduction to Computing	4	2
MAB493	Engineering Mathematics II*	6	3
EEB101	Circuits & Measurements	7	3
MEB171	Introduction to Manufacturing	3	1.5
CEB102	Civil Engineering I	3	1.5
Year 2, Semester 2			
MEB101	Design I	8	3
CSB291	Introduction to FORTRAN	4	2
MAB493	Engineering Mathematics II*	6	3
EEB202	Electromagnetics	6	3
EEB273	Microcomputers in Engineering	4	2
	ONE Group A Elective Subject	4	2
Year 3, Semester 1			
MEB313	Mechanics I	6	3
MEB361	Fluids I	6	3
MEB250	Thermodynamics I	6	3
MAB893	Engineering Mathematics III	6	3
MEB773	Design for Manufacturing I	7	3
Year 3, Semester 2			
MEB231	Materials III	6	3
MEB411	Theory of Machines	7	3
MEB462	Fluids II	6	3
MEB251	Thermodynamics II	6	3

* *Subject extends over two semesters.*

\+ *CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Grade 12 Chemistry.*

MEB463	Tribology	6	3
MEB300	Industrial Experience II		5 weeks

Year 4, Semester 1

MEB381	Design II	6	3
MEB511	Stress Analysis	7	3
MEB550	Heat Transfer	6	3
EEB209	Electrical Engineering IIM	6	3
MEB370	Manufacturing Systems I	6	3

Year 4, Semester 2

MEB483	Design III	7	3
MEB670	Industrial Engineering I	6	3
MEB610	Mechanics II	6	3
MEB640	Automation I	7	3
MEB472	Manufacturing Systems II	6	3

Year 5, Semester 1

MEB464	Fluids III	7	3
MEB510	Noise & Vibrations	7	3
MEB772	Engineering Project Appraisal	7	3
MEB911	Finite Element Analysis	7	3
CMB136	Technical Writing	2	1
	ONE Group B Elective Subject	7	3

Year 5, Semester 2

MEB339	Materials & Manufacturing Project	6	3
MEB660	Fluid Power	6	3
MEB981	Design of Materials Handling Systems	6	3
MEB650	Thermodynamics III	6	3
	ONE Group C Elective Subject	7	3
MEB402	Industrial Experience III		5 weeks

Year 6, Semester 1

MEB489	Mechanical Design Project*	7	3
MEB409	Project B (Mechanical)*	8	3
MEB771	Industrial Engineering II	6	3
MEB710	Automation II	7	3
	ONE Group D Elective Subject	7	3

Year 6, Semester 2

MEB489	Mechanical Design Project*	7	3
MEB409	Project B (Mechanical)*	8	3
MNB043	Industrial Management	6	3
ACB481	Financial Management for Engineers	6	3
	ONE Group E Elective Subject	7	3

Electives

Refer to Full-Time Course Structure.

■ Associate Diploma in Cartography (SVL212)+

Location: Gardens Point campus

Course Duration: 4 years part-time

Total Credit Points: 192

* *Subject extends over two semesters.*

\+ *See Special Notes, page 243.*

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Basil Pathe

Professional Recognition
Membership: Associate, Australian Institute of Cartographers

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
SVT113	Introductory Cartography	8	3
SVT115	Cartographic Computations I	8	3
SVT471	Land Laws & Regulations	8	3
Year 1, Semester 2			
SVT222	Survey Drafting	8	3
SVT225	Surveying	8	3
SVT243	Photogrammetry I	8	3
Year 2, Semester 1			
SVT315	Cartographic Computations II	8	3
SVT316	Land Studies I	8	3
SVT343	Photogrammetry II	8	3
Year 2, Semester 2			
SVT426	Land Studies II	8	3
SVT443	Photogrammetry III	8	3
SVT991	Computer Graphics I	8	3
Year 3, Semester 1			
SVT715	Cartography I	8	3
SVT513	Digital Mapping	8	3
SVT511	CAD Systems	8	3
Year 3, Semester 2			
SVT815	Cartography II	8	3
SVT642	Map Projections I	8	3
SVT626	Seminar	4	1.5
SVT623	Project Mapping	4	1.5
Year 4, Semester 1			
SVT915	Cartography III	8	3
SVT992	Computer Graphics II	8	3
SVT742	Map Projections II	8	3
Year 4, Semester 2			
SVT916	Cartography IV	8	3
SVT945	Remote Sensing	8	3
SVT826	Cartographic Administration	8	3

Associate Diploma in Civil Engineering (CEL187)*

Note: There are two majors to 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 part-time, subject to quotas.

* *See Special Notes, page 243.*

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 Robin Black

Professional Recognition

Membership: Australian Institute of Engineering Associates
The Institute for Drafting and Design, Australia

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
GENERAL MAJOR			
Year 1, Semester 1			
CET120	Civil Systems I	7	3
CET135	Engineering Mechanics	7	3
CET190	Civil Engineering Materials	7	3
CET195	Civil Engineering	7	3
MET120	Engineering Drawing I	7	3
SVT306	Engineering Surveying	7	3
CET180	Civil Drafting Practice A	3	3
CET894	Computations A	3	3
Year 1, Semester 2			
CET255	Structural Mechanics	7	3
CET286	Civil Office Practice	7	3
CET365	Hydraulic Engineering	7	3
CET435	Concrete Practice	7	3
CET645	Soil Mechanics	7	3
CET815	Road Location & Design	7	3
CET235	Laboratory Practice A	3	3
CET287	Civil Office Practice A	3	3
Year 2, Semester 1			
CET565	Road & Drainage Engineering	7	3
CET585	Civil Engineering Drafting	7	3
CET756	Building Construction Practice	7	3
CET775	Public Health Engineering	7	3
CET306	Field Practice IA	3	3
CET387	Civil Engineering Drafting A	3	3
	ONE subject from List B	7	3
	ONE Elective Subject	7	3
Year 2, Semester 2			
CET704	Civil Construction Practice	7	3
CET708	Specifications & Estimates	7	3
CET405	Field Practice IIA	3	3
CET495	Project A	3	3
	TWO Elective Subjects	14	6
	TWO Subjects from List B	14	6

Exemption from the practical experience subjects, designated by the suffix A after the subject name in the full-time course, may be granted on the basis of appropriate industrial experience. Written application must be made to the Registrar on an application for exemption form.

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 subjects, before being eligible for the Associate Diploma award. For the employment to be recognised, students must submit an industrial experience record form, provided for the purpose, which has been completed by both the student and the employer. These forms may be collected from outside Room 'O' 610.

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

		Credit Points	Contact Hrs/Wks
Year 1, Semester 1			
CET135	Engineering Mechanics	7	3
CET195	Civil Engineering	7	3
ENT100	Industrial Employment I	3	15 weeks
MET120	Engineering Drawing I	7	3
Year 1, Semester 2			
CET190	Civil Engineering Materials	7	3
CET255	Structural Mechanics	7	3
CET286	Civil Office Practice	7	3
ENT200	Industrial Employment II	3	15 weeks
Year 2, Semester 1			
CET120	Civil Systems I	7	3
CET645	Soil Mechanics	7	3
ENT300	Industrial Employment III	3	15 weeks
SVT306	Engineering Surveying	7	3
Year 2, Semester 2			
CET365	Hydraulic Engineering	7	3
CET435	Concrete Practice	7	3
CET815	Road Location & Design	7	3
ENT400	Industrial Employment IV	3	15 weeks
GENERAL MAJOR			
Year 3, Semester 1			
CET565	Road & Drainage Engineering	7	3
CET585	Civil Engineering Drafting	7	3
CET775	Public Health Engineering	7	3
ENT500	Industrial Employment	3	15 weeks
Year 3, Semester 2			
CET708	Specifications & Estimates	7	3
CET756	Building Construction Practice	7	3
	ONE Subject from List B	7	3
ENT600	Industrial Employment VI	3	15 weeks
Year 4, Semester 1			
CET704	Civil Construction Practice	7	3
	ONE Subject from List B	7	3
	ONE Elective Subject	7	3
ENT700	Industrial Employment VII	3	15 weeks
Year 4, Semester 2			
	ONE Subject from List B	7	3
	TWO Elective Subjects	14	6
ENT800	Industrial Employment VIII	3	15 weeks

List B Subjects

FIRST SEMESTER

CET606	Construction Management (Evening)	
CET655	Concrete & Steel Design (Day)	
CET787	Structural Engineering Drawing (Evening)	

SECOND SEMESTER

CET787	Structural Engineering Drawing (Day)	
CET709	Safety & Industrial Relations (Evening)	
CET887	Computer Aided Drafting (Day & Evening)	
CET655	Concrete & Steel Design (Evening)	

Electives for General Major - Full-Time and Part-Time Study

FIRST SEMESTER

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

SECOND SEMESTER

CET420	Civil Systems II	7	3
CET797	Project I	7	3
CET802	Civil Engineering Practice II	7	3
CET838	Advanced Laboratory Testing II	7	3
CET857	Advanced Construction Techniques	7	3
CET888	Structural Drawing & Design (Day)	7	3

Up to 21 credit points of subjects from other modes or majors of this course or from other Queensland University of Technology courses may be approved by the Head of School as alternatives to the listed electives.

The number of electives available will depend upon a sufficient number of students being enrolled.

Degree level subjects may be selected as electives with the approval of the Head of School.

WATER AND WASTEWATER PROCESS OPERATION MAJOR
(The first four semesters are common to the General Major.)

Year 3, Semester 1

Students must complete the first set of four subjects or the second set of two subjects.

CET565	Road & Drainage Engineering	7	3
CET585	Civil Engineering Drafting	7	3
CET775	Public Health Engineering	7	3
ENT500	Industrial Employment V	3	15 weeks
	OR		
CET598	Project II	21	9
ENT500	Industrial Employment V	3	15 weeks

Year 3, Semester 2

CET776	Equipment Operation & Maintenance	7	3
CHA145	Introductory Chemistry	8	3
CHA644	Process Measurement & Monitoring I	7	3
ENT600	Industrial Employment VI	3	15 weeks

Year 4, Semester 1

CET606	Construction Management	7	3
CET777	Process Operation & Control I	7	3
CHA744	Process Measurement & and Monitoring II	7	3
ENT700	Industrial Employment VII	3	15 weeks

Year 4, Semester 2

CET876	Plant Operation & Maintenance	7	3
CET877	Process Operation & Control II	7	3
CHA844	Trade Waste Control	7	3
ENT800	Industrial Employment VIII	3	15 weeks

Associate Diploma in Electrical Engineering* (EEL188)

Location: Gardens Point campus

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr John Edwards

Professional Recognition

Membership: Australian Institute of Engineering Associates
The Institute for Drafting and Design, Australia

Note: Students are required to select two of the following 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 II	(c)	7	3
EET891	Advanced Computing Techniques	(d)	7	3
INDUSTRIAL SYSTEMS MODULE				
EET522	Control Systems II	(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 I	(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 I	(a)	7	3
EET737	Transmission & Propagation	(b)	7	3
EET760	Communications Engineering II	(c)	7	3
EET860	Communications Technology	(d)	7	3

Full-Time/Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
EET111	Electrical Engineering I	7	3
EET211	Electrical Engineering II	7	3

* *See Special Notes, page 243.*

\+ *See Notes, page 266.*

EET100	Electrical Engineering Computations		7	3
CST390	Computer Programming I		7	3
MET101	Engineering Drawing		7	3
MET175	Workshop (Mech) IA		3	3
MET123	Electrical Engineering Drawing IA		3	3
MET475	Workshop (Mech) IIIA		3	3

Year 1, Semester 2

EET350	Electrical Engineering III		7	3
EET270	Electronics I		7	3
EET420	Control Systems I		7	3
EET460	Telecommunications		7	3
EET676	Digital Electronics		7	3
EET490	Computer Packages		7	3
MET201	Applied Mechanics		7	3
MET223	Electrical Engineering Drawing IIA		3	3

Year 2, Semester 1

EET570	Electronics II		7	3
	Major 1	(a)	7	3
	Major 2	(a)	7	3
ENT500	Industrial Employment V		3	15 weeks

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
ENT600	Industrial Employment VI		3	15 weeks

Year 3, Semester 1

	ONE Elective Subject		7	3
	Major 1	(c)	7	3
	Major 2	(c)	7	3
ENT700	Industrial Employment VII		3	15 weeks

Year 3, Semester 2

EET880	Design		7	3
	Major 1	(d)	7	3
	Major 2	(d)	7	3
ENT800	Industrial Employment VIII		3	15 weeks

Exemption from the practical experience subjects, designated by the suffix A after the subject name in the full-time course, may be granted on the basis of appropriate industrial experience. Written application must be made to the Registrar on an application for exemption form.

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 subjects, before being eligible for the Associate Diploma award. An industrial experience record form, as for part-time students, must be submitted.

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 subjects, before being eligible for the Associate Diploma award. For the employment to be recognised, students must submit an industrial experience record form, provided for the purpose, which has been completed by both the student and the employer.

			Credit Points	Contact Hrs/Wk
Year 1, Semester 1				
EET111	Electrical Engineering I		7	3
EET100	Electrical Engineering Computations		7	3
MET101	Engineering Drawing		7	3
ENT100	Industrial Employment I		3	15 weeks
Year 1, Semester 2				
EET211	Electrical Engineering II		7	3
EET270	Electronics I		7	3
ENT200	Industrial Employment II		3	15 weeks
MET201	Applied Mechanics		7	3
Year 2, Semester 1				
EET350	Electrical Engineering III		7	3
CST390	Computer Programming I		7	3
EET676	Digital Electronics		7	3
ENT300	Industrial Employment III		3	15 weeks
Year 2, Semester 2				
EET420	Control Systems I		7	3
EET460	Telecommunications		7	3
EET490	Computer Packages		7	3
ENT400	Industrial Employment IV		3	15 weeks
Year 3, Semester 1				
ENT600	Industrial Employment VI		3	15 weeks
EET570	Electronics II		7	3
	Major 1	(a)	7	3
	Major 2	(a)	7	3
ENT500	Industrial Employment V		3	15 weeks
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 Subject		7	3
	Major 1	(c)	7	3
	Major 2	(c)	7	3
ENT700	Industrial Employment VII		3	15 weeks
Year 4, Semester 2				
EET880	Design		7	3
	Major 1	(d)	7	3
	Major 2	(d)	7	3
ENT800	Industrial Employment VIII		3	15 weeks

Notes

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

3. A registered student who has completed the following trade courses in Queensland may apply to be exempted from the following subjects. 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.

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

■ Associate Diploma in Mechanical Engineering (MEL189)*

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 Richard Hall

Professional Recognition

Membership: Australian Institute of Engineering Associates
Institute for Drafting and Design, Australia (Queensland Division)

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MET120	Engineering Drawing I	7	3
MET210	Applied Mechanics I	8	3
MET140	Engineering Materials I	8	3
MET940	Mechanical Measurements	8	3
MET560	Thermofluids	8	3
MET121	Drafting Practice IA	3	3
MET171	Trade Training IA	6	7
Year 1, Semester 2			
MET220	Engineering Drawing II	8	3
MET310	Applied Mechanics II	8	3
MET433	Engineering Materials II	8	3
MET170	Manufacturing Technology	8	3
CSA165	Computing	7	3
MET221	Drafting Practice IIA	3	3
MET271	Trade Training IIA	6	7
Year 2, Semester 1			
MET320	Engineering Drawing III	6	3
MET250	Thermodynamics	6	3
MET580	Machine Elements I	6	3
EET500	Electrical Technology	6	3
MET572	Production Planning & Control	6	3
MET920	Computer Aided Design & Drafting	6	3
MET933	Industrial Tribology	6	3
	ONE Elective Subject	6	3

* *See Special Notes, page 243.*

Year 2, Semester 2

MET420	Engineering Drawing IV	7	3
MET961	Fluid Mechanics	7	3
MET350	Process Engineering	7	3
MET573	CAD/CAM Technology	7	3
MET971	Industrial Practice	7	3
MET650	Plant Engineering IA	3	3
MET421	Mechanical Project IA	3	3
	ONE Elective Subject	7	3

Electives

FIRST SEMESTER

MET733	Industrial Metallurgy	6	3
MET782	Jig & Tool Design	6	3
MET511	Noise, Stress & Vibration Practice	6	3
MET901	Sugar Mill Technology I	6	3
MET850	Energy Management	6	3
MAB193	Engineering Mathematics I*	6	3
PHB132	Engineering Physics IA*	6	3
EEB101	Circuits & Measurements*	7	3

SECOND SEMESTER

MET680	Machine Elements II	7	3
MET960	Fluid Power	7	3
MET352	Air Conditioning & Refrigeration	7	3
MET902	Sugar Mill Technology II	7	3
MAA251	Statistics & Data Processing	8	3
MAB193	Engineering Mathematics I*	6	3
MEB111	Dynamics*	7	3

Notes

1. From time to time a series of special electives 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 subjects (*) may be selected as electives with the approval of the Head of School.
3. Exemption from the practical experience subjects, designated by the suffix A after the subject name in the full-time courses, may be granted on the basis of appropriate industrial experience. Written application must be made to the Registrar on an application for credit form.
4. A registered student who has completed the following trade courses in Queensland may apply to be exempted from the following subjects. 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

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 subjects, before being eligible for the Associate Diploma award. For the employment to be recognised, students must submit an industrial experience record form, provided for the purpose, which has been completed by both the student and the employer.

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ENT100	Industrial Employment I	3	15 weeks
MET120	Engineering Drawing I	7	3
MET140	Engineering Materials I	8	3
MET210	Applied Mechanics I	8	3
Year 1, Semester 2			
ENT200	Industrial Employment II	3	15 weeks
MET220	Engineering Drawing II	8	3
MET310	Applied Mechanics II	8	3
MET433	Engineering Materials II	8	3
Year 2, Semester 1			
MET320	Engineering Drawing III	6	3
MET940	Mechanical Measurements	8	3
MET560	Thermofluids	8	3
ENT300	Industrial Employment III	3	15 weeks
Year 2, Semester 2			
MET420	Engineering Drawing IV	7	3
CSA165	Computing	7	3
MET170	Manufacturing Technology	8	3
ENT400	Industrial Employment IV	3	15 weeks
Year 3, Semester 1			
MET580	Machine Elements I	6	3
MET250	Thermodynamics	6	3
EET500	Electrical Technology	6	3
ENT500	Industrial Employment V	3	15 weeks
Year 3, Semester 2			
MET961	Fluid Mechanics	7	3
MET573	CAD/CAM Technology	7	3
MET920	Computer Aided Design & Drafting	6	3
ENT600	Industrial Employment VI	3	15 weeks
Year 4, Semester 1			
MET572	Production Planning & Control	6	3
MET933	Industrial Tribology	6	3
	ONE Elective Subject	6	3
ENT700	Industrial Employment VII	3	15 weeks
Year 4, Semester 2			
MET350	Process Engineering	7	3
MET971	Industrial Practice	7	3
	ONE Elective Subject	7	3
ENT800	Industrial Employment VIII	3	15 weeks

Electives

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