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Academic Programs

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Introduction

The main purpose of graduate study is to encourage independence and originality of thought in the quest for knowledge. The Doctor of Philosophy degree is awarded in recognition of a student's erudition in a broad field of learning and for notable accomplishment in that field through an original and substantial contribution to knowledge. The candidate's research must reveal high critical ability and powers of imagination and synthesis, and may be in the form of new knowledge, or of significant and original adaptation, application and interpretation of existing knowledge.

1. General conditions

1.1 The Council of the Queensland University of Technology was established in 1989 under the *Queensland University of Technology Act.*

1.2 This document sets out the Regulations governing the award of the degree of PhD.

1.3 The Council's power to approve arrangements for the registration and examination of candidates for the degree of PhD is exercised through a Research Management Committee, which shall be a subcommittee of Academic Committee. In exercising this power, the Research Management Committee shall be advised by Faculty academic boards, Deans of Faculty and Heads of School, as appropriate.

1.4 In order to qualify for the award of the degree of PhD, a candidate must submit to the Research Management Committee:

☐ a certificate of satisfactory completion of the candidate's approved course of study signed by the Principal Supervisor

☐ a declaration signed by the candidate that he or she has not been a candidate for another tertiary award without permission of the Research Management Committee

☐ a certificate recommending acceptance of the thesis in fulfilment of the conditions for the award of the PhD degree signed by each member of the Faculty panel that recommended examination of the thesis and the Examination Committee which accepted it

☐ an application for conferral of the degree, and

☐ four copies of the thesis in the required format.

2. Registration

2.1.1 A candidate may register either as a full-time or as a part-time student (see also Section 4). To be registered as a full-time student, a candidate must be able to commit to the course 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.

2.1.2 A candidate who is unable to devote to the course the proportion of time specified in Section 2.1.1 may register as a part-time student.

2.1.3 A candidate's program of research or other approved investigation may be based at a place of employment or a sponsoring institution (see Section 7). Normally, support of the sponsoring establishment for the candidate's application is required for registration.

2.1.4 A sponsoring establishment is required to certify annually by 31 December that all registered candidates sponsored by that organisation are actively engaged in their course of study, and are maintaining frequent contact with their local supervisor.

2.2 To gain registration in a course of study leading to the award of a Doctor of Philosophy, a candidate normally shall hold a relevant first class or second class division A Honours degree or an appropriate Masters degree (by coursework or by thesis) of QUT or of another recognised institution.

2.3 Before accepting an application for registration, the Research Management Committee must satisfy itself that the candidate has sufficient command of English to complete satisfactorily the proposed course of study, to pass an oral examination in English as described in Section 9.2, and to prepare a thesis in English.

2.4 Without the specific permission of the Research Management Committee, students may not be registered as candidates for a PhD degree if they are registered candidates for another tertiary award.

2.5 The Research Management Committee may cancel a candidate's registration, after consulting the relevant Dean and supervisors and having taken account of all relevant circumstances and having given the candidate opportunity to show cause why it should not do so:

□ if it 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 Regulation 4), or

□ if the quality and progress of research gives no reasonable expectation of successful completion of the degree, or

□ if the candidate's grade point average in coursework undertaken is below 5.00 on a scale of seven.

2.6 A student whose registration has lapsed or has been cancelled, and who wishes subsequently to re-enter the course of study to pursue an investigation which is substantially the same as his/her previous investigation, may be re-admitted under such conditions as the Research Management Committee shall prescribe.

2.7 An application for registration shall be made on the prescribed application form and shall include any information which may be required, such as:

□ personal data

□ academic record and details of relevant professional and research experience

□ the proposed field of study

□ the proposed title of thesis

□ a brief outline of proposed research

□ the centre/research concentration area

□ a brief description of intended research methods and required equipment and consumables.

The Research Management Committee reserves the right to call for referee reports where considered necessary to enable a decision on registration to be made.

2.8 The Faculty shall advise the Research Management Committee:

☐ whether the applicant meets the prescribed criteria for registration (see Regulations 2.2, 2.3, 2.4), or if deficiencies exist, what they are and whether and how they can be remedied

☐ whether the applicant's proposed topic of research is consistent with the aims and objectives of the centre/research concentration area

☐ whether the centre/research concentration area is willing and able to provide the accommodation, facilities and resources required for the proposed study

☐ of the names and academic details of a Principal Supervisor and Associate Supervisor(s) (see Regulation 6).

2.9 Research Management Committee shall recommend that:

☐ the applicant be registered to PhD candidature, in which case it shall appoint supervisors, or

☐ the applicant be admitted to master candidature with the option of later applying to upgrade to PhD candidature (see Regulation 5), or

☐ the applicant be not admitted,

and may set conditions on an offer of admission including date of registration.

2.10 On registration, the candidate shall develop, in consultation with his/her supervisors, and provide to the Research Management Committee, a realistic and clear statement of objectives, which may be coursework, projects or research, which will constitute the basis of a full course of study (see Regulation 3).

2.11 Normally, within 12 months of registration (or 18 months for part-time candidates), the candidate shall develop, in consultation with his/her supervisors, a full course of study (see Regulation 3), which shall incorporate work done to this point and shall be able to demonstrate a research capacity.

2.12 The Faculty shall review the candidate's progress and full course of study and shall submit to the Research Management Committee an Application for Confirmation of Candidature consisting of:

☐ appraisal of the candidate's progress and suitability for continuation in the PhD program

☐ the full course of study

☐ a statement that the course of study is of the standard required for a PhD program

☐ statements of whether the studies continue to be within the aims and objectives and physical and human resources of the centre/research concentration area.

2.13 The Research Management Committee may require changes to the full course of study, and shall:

☐ confirm the candidate's registration, or

☐ if the recommendation of the Faculty is not to confirm candidature immediately, extend provisional candidature for up to three months. A further extension up to a maximum of three months may be granted only in exceptional circumstances.

Where an extension of provisional candidature has been approved, the candidate must be advised of the conditions to be met for confirmation of candidature in the form of clear written guidelines on work to be completed and due dates for submission of materials. The conditions should be endorsed by the student, supervisor(s), Director of Centre and the Head of School or Dean as appropriate, or

after giving the candidate opportunity to show cause why such action should not be taken:

☐ terminate the candidature with an offer of admission to candidature for the degree of master, or

☐ terminate the candidature with no such offer.

2.14 Candidature shall have commenced on the date of registration, or at some later date as determined by the Research Management Committee.

3. Course of study

3.1 A candidate for the degree of Doctor of Philosophy is required to complete successfully a course of study which results in a substantial contribution to knowledge. This contribution may be in the form of new knowledge, or of significant and original adaptation, application and interpretation of existing knowledge.

3.2 The course of study normally will include:

☐ a program of assessed coursework

☐ participation in university scholarly activities such as research seminars, teaching and publication

☐ regular face to face interaction with supervisors, and

☐ a program of supervised research and investigation

and must be such as to enable the candidate to acquire competence in relevant methods of research and scholarship related to the subject of the proposed investigation, and to display sustained independent effort.

3.3 Coursework at doctoral 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.

3.4 Coursework will occupy not more than one third of the total period of registration (see Section 4).

3.5 A full and systematic description of the candidate's proposed course of study shall be included in an Application for Confirmation of Candidature (see Regulation 2.12). The description should include the area of study within which the candidate's course lies, the coursework to be undertaken, the nature of participation in scholarly activities of the Centre, School or Faculty in which the study is being undertaken, the objectives of the proposed program of research and investigation, its relationship to previous work in the same field, the research methods to be followed, and the proposed title of the thesis to be written.

3.6 A candidate is normally expected to pursue the approved program of research and investigation throughout the period of registration. Where circumstances make modification or extension of the program desirable, approval for the proposed change must be sought in writing from the Research Management Committee. Permission to maintain the candidate's

registration may be given by the Committee in such circumstances, provided that the course of study remains in the same field.

3.7 Where a candidate's approved program of research and investigation forms part of a group project, the application must indicate clearly the individual contribution expected to be made by the candidate, and the extent to which the work is to be carried out in collaboration with others (see also Section 8.4).

3.8 Where an approved program of research and investigation is carried out jointly in QUT and in an industrial, commercial, professional or research establishment, the nature of the work to be carried out in each need not be prescribed in detail initially, but a clear indication must be provided of the way in which the work that the candidate is likely to undertake in the collaborating establishment relates to work to be undertaken at QUT or elsewhere.

3.9 In appropriate cases, the Research Management Committee may approve a course of study leading to the presentation of a thesis accompanied by material in other than written form, or exceptionally, in lieu of a research program, a program of scholarly postgraduate work concerned with significant aspects of industrial, commercial or professional activity. Such approval must be sought from the Research Management Committee at the time of application for registration or when approval to modify the course of study is sought. At the same time, arrangements for the examination of such candidates should be proposed for approval by the Research Management Committee, including details of the form which the candidate's presentation is expected to take.

4. Period of time for completion of course of study.

4.1 A full-time candidate who does not hold a Masters degree appropriate to the course of study will normally be required to complete a period of registration of at least 30 months before submitting the thesis for examination. The corresponding period in the case of a part-time candidate shall be 42 months. In special cases the Research Management Committee may approve a shorter period.

4.2 A holder of a Masters degree appropriate to the course of study may submit the thesis for examination after not less than 24 months of registration if a full-time student, or 36 months if a part-time student. In special cases the Research Management Committee may approve a shorter period.

4.3 Without the permission of the Research Management Committee, no full-time candidate for the degree of PhD shall submit a thesis for examination more than 48 months from the date on which registration in the program was granted. The corresponding period in the case of a part-time candidate shall be 60 months.

4.4 Where a candidate wishes to change from full-time to part-time registration or vice versa, application must be made in writing to the Research Management Committee. All such applications must specify the revised date of expected completion.

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 Research Management Committee, together with the reasons for the delay in completing the course and the expected date of completion. Where the Committee agrees to an extension, it may set a limit to the maximum period of registration in the PhD program.

5. Transfer of registration

5.1 A candidate registered for a Masters degree or a professional doctorate may apply for transfer to PhD candidature. An application will normally be approved only when the candidate is able to satisfy the requirements for confirmation of PhD registration (see Regulations 2.11 and 2.12). Where coursework has been undertaken as part of the Masters degree or professional doctorate, a transfer normally may be approved only if the candidate

has attained a grade point average of at least 5.00 on a seven point scale. Masters qualifying candidates must have confirmed Masters registration before applying for transfer to PhD candidature.

5.2 A candidate for a Masters or PhD degree at another recognised institution may apply for transfer to a PhD program at QUT if the requirements for confirmation of PhD registration can be satisfied.

5.3 Intending applicants for transfer shall develop, in consultation with their existing or preferred supervisors as appropriate, a full course of study (see Regulation 3).

5.4 Applications shall be made on the prescribed form to the Research Management Committee and shall consist of required administrative details, reasons for transfer and a full course of study. The Faculty shall first review the candidate's progress and full course of study and append to the Application for Transfer a statement which sets out:

☐ the nature, duration and quality of the work already done, its relevance to the proposed PhD thesis and the recommended amount of credit

☐ appraisal of the candidate's progress and suitability for transfer of candidature and confirmation of PhD registration

☐ the supervisors and their credentials

☐ whether the proposed research is within the aims and objectives and physical and human resources of the centre/research concentration area.

5.5 Research Management Committee may require changes to the full course of study and shall:

☐ approve the transfer of candidature, normally confirming PhD registration, and determine the amount of credit to be allowed and the date of registration, or

☐ not approve the transfer.

5.6 The periods of minimum and maximum time for presentation of the thesis shall be extended by eight months for candidates who were admitted to a Masters degree from a pass degree.

5.7 A candidate registered for the degree of PhD who is unable to complete the approved course of study may apply for transfer to an appropriate Masters degree.

6. Supervision

6.1 Normally two supervisors shall be appointed for each PhD candidate.

6.2 One supervisor shall be the principal supervisor, with responsibility for supervising the candidate on a frequent basis. The principal supervisor shall be a member of QUT staff. A principal supervisor normally shall have undertaken the successful supervision of research degree candidates. Where a principal supervisor is proposed who has not undertaken such supervision, an associate supervisor (see Section 6.3) should have had such experience.

6.3 An associate supervisor may be appointed either from QUT or from elsewhere. Where appropriate, more than one associate supervisor may be appointed. The Research Management Committee may approve the appointment as associate supervisor of a person without experience sufficient to satisfy appointment as a principal supervisor. Where collaboration has been arranged between QUT and another organisation, the latter is expected to recommend to the Committee a member of its staff as an associate supervisor.

6.4 The Research Management Committee must be satisfied regarding the qualifications and experience of all proposed supervisors.

6.5 The principal supervisor and candidate are required to report at six-monthly intervals on the prescribed form to the Research Management Committee on the candidate's progress and research plans. Both reports shall be signed by the candidate and supervisor and submitted through the Head of School and the Director of the Centre or Research Concentration.

6.6 Faculties may develop internal policies and procedures for six-monthly review of candidate's progress and may provide to the Research Management Committee reports and recommendations in addition to those of the candidate and supervisor.

6.7 The Research Management Committee shall:

☐ where the candidate's performance is deemed satisfactory, approve continuation of the candidate, or

☐ where the candidate's performance is deemed unsatisfactory

■ determine requirements to be placed on the student or such other action which it deems necessary to remedy the unsatisfactory situation, or

■ cancel a candidate's registration (see Regulation 2.5)

and shall advise the candidate and principal supervisor in writing of any such decisions.

6.8 In the six-monthly report following a report of progress deemed unsatisfactory by the Research Management Committee, the candidate and principal supervisor shall comment on progress on any specified remedial action.

6.9 When a candidate's progress has been unsatisfactory to the Research Management Committee in any two consecutive six-monthly reports during the candidature, the Research Management Committee shall normally cancel the registration of the candidate (see Regulation 2.5).

7. Place and conditions of work

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

7.2 The Research Management Committee must be satisfied that arrangements as set out in these regulations regarding coursework, participation in scholarly activities, supervision, facilities and training in research methods may be made for the candidate, and that accommodation, equipment and access to library and computing facilities meet the needs of the approved course of study.

8. Thesis

8.1 The thesis must be presented in accordance with the requirements of the Council, including any accompanying declarations (see Section 1).

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

8.3 The thesis must include a statement of the objectives of the investigation, and must acknowledge published or other sources of information, together with any substantial financial assistance received.

8.4 Where a candidate's research program forms part of a collaborative group project, the thesis must indicate clearly the candidate's individual contribution and the extent to which co-workers contributed to the candidate's program.

8.5 Subject to QUT's intellectual property policy, the copyright of the thesis is vested in the candidate.

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

9. Examinations

9.1 Any fees payable in relation to the examination of a candidate shall be determined by the Council.

9.2 In order to determine whether the thesis is acceptable for examination by the Examination Committee, and subject to the provisions of Section 9.3, the candidate shall be examined orally by the Faculty to which he/she is attached. The examination will be based on:

☐   the work described in the thesis, and

☐   the field of study in which the investigation lies.

The Faculty shall advertise or otherwise arrange for the oral examination which should be attended by all available members of the Examination Committee. The examination shall be conducted by a panel of three nominated by the Faculty and chaired by the principal supervisor.

Fourteen days prior to the date of the oral examination sufficient copies of the thesis, bound in temporary cover, must be presented to the Chairperson of the Faculty examining panel so as to provide a copy for each member of the panel and each attending member of the Examination Committee. The Faculty examining panel shall use the prescribed form when advising the Faculty and the Research Management Committee that the thesis meets with their approval.

9.3 Where for good and sufficient reasons the Research Management Committee is satisfied that a candidate would be seriously disadvantaged if required to undergo an oral examination, an alternative form of examination may be approved. Such approval shall not be given solely on the grounds that the candidate's knowledge of the English language is inadequate (see Section 2.3).

9.4 The thesis shall normally be examined by an Examination Committee comprising at least two external examiners and not more than one internal examiner. The internal examiner normally shall chair the committee. If there is no internal examiner, then the Research Management Committee shall appoint a chairperson.

9.5 Subject to agreement between supervisors and not later than six months before the proposed date for the submission of the thesis, the principal supervisor is required to recommend to the Research Management Committee the composition of a proposed Examination Committee, together with the title of the candidate's thesis.

9.6 Four copies of the thesis in the required format must be presented to the Research Management Committee together with certification that the approved course of study has been completed and the thesis accepted by the Faculty to which the candidate is attached (see Section 9.2). Receipt of the thesis by the Research Management Committee shall constitute the submission of the candidate's thesis for examination.

9.7 The candidate's principal supervisor shall forward arrangements for examination of the thesis through the Faculty to the Research Management Committee for approval.

9.8 In exceptional circumstances, the Research Management Committee may act directly to make suitable arrangements for the examination of a candidate, including the selection of examiners.

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

9.10 The external examiners must be independent of both the University and the sponsoring establishment, if any.

9.11 External examiners should normally have substantial research experience in the area under investigation and be internationally recognised in the relevant field. It is recommended that at least one of the nominated external examiners is from an overseas university or equivalent research institution, although all of the examiners may be from Australian institutions provided they are recognised as international experts in the relevant field of research. At least one external examiner must also have had experience of examining research degree candidates at the doctoral level.

9.12 The internal examiner, if any, may not be an associate supervisor. However an associate supervisor may be Chair of the Examination Committee.

9.13 The internal examiner must have experience of research in the general field under investigation and, where practicable, should have specialist knowledge of the area in which the investigation was conducted.

9.14 The Research Management Committee shall provide the examiners with a copy of the thesis and of the Council's PhD Regulations, and with any other relevant information.

9.15 When the examiners are in agreement with respect to the thesis, the Chairperson shall transmit the result of the examination on the prescribed form to the Chairperson of the Research Management Committee. The examiner's report shall recommend:

(i)   that the degree be awarded, with or without minor modifications to the thesis, or

(ii)   that the candidate be re-examined, or

(iii)   that the degree not be awarded.

If a candidate is required to revise and resubmit a thesis, the examiner's reports will be made available to the candidate, the anonymity of the examiners being maintained.

When the recommendation is that the degree be awarded, the Chairperson must return an Examiners' Report together with a certificate signed by each examiner recommending acceptance of the thesis in fulfilment of the conditions for the award of the PhD degree. A copy of the thesis, together with the certification by the Faculty examiners and the Examination Committee will then be lodged in the QUT library. A copy will be sent at the same time to the sponsoring establishment, if any.

9.16 If the examiners cannot reach agreement, they shall submit separate reports and recommendations to the Research Management Committee. In cases where the examiners' reports differ, the Research Management Committee may request that the Chair of Examiners give expert opinion, in consultation with the other examiners, on any matter referred to them by the Committee related to a dispute, and to the extra work the candidate may be required to undertake. The Research Management Committee may then:

(i)   not award the degree, or

(ii)   accept a majority recommendation with or without the advice of a further external examiner.

9.17 A candidate who fails to satisfy the Research Management committee at the first attempt may, on the recommendation of the examiners and with the approval of the

Research Management Committee, be re-examined not more than once. Application must be made to the Research Management Committee for approval of the re-examination arrangements.

9.18 Re-examination shall take place within 12 months from the date on which the candidate is advised in writing of such re-examination. The Research Management Committee may, on application by the candidate and supported by the principal supervisor, approve an extension of this period.

9.19 The examiners must give the candidate guidance on the deficiencies identified by the first examination.

9.20 The Research Management Committee may require that an additional external examiner be appointed for the re-examination.

9.21 Regulations applicable to examinations generally shall apply to the re-examination.

9.22 The examiners may recommend that a candidate who has been examined for the degree of PhD be awarded the degree of Master, provided that the candidate meets or can meet the requirements of a Masters program.

9.23 After the examination process is complete, examiners' reports are to be made available to the candidate on request. The names of examiners will be released on request providing the examiner has indicated willingness to have his/her identity revealed to the candidate.

■ Master of Applied Science (Research)

Introduction

The objectives of the course are:

☐ to provide postgraduate educational opportunities in specialised fields of applied science and information technology by means of a program which involves either an original contribution to knowledge or an original application of existing knowledge

☐ to provide further education in research methods

☐ to enable graduates employed in industry to undertake further education by research and thesis

☐ to enable industrial organisations and other external agencies to sponsor a student research program under the control and supervision of the Faculty

☐ to further relationships between the University and industry or other external agencies engaged in applied science, to their mutual advantage.

1. General Conditions

1.1 The Council of the Queensland University of Technology was established in 1989 under the *Queensland University of Technology Act* 1988.

1.2 The Council's power to approve recommendations from Faculty academic boards regarding the registration, supervision and examination of research degree candidates and to develop policy and procedure relating to research degrees is exercised through a Research Management Committee which shall be a subcommittee of Academic Committee.

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

1.4 Unless the context otherwise indicates or requires, the words 'academic board' and 'Faculty' shall refer to the Faculty in which the candidate registers.

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

☐ have completed the approved course of study under the supervision prescribed by the academic board

☐ have submitted and the academic board accepted a thesis prepared under the supervision of the supervisor

☐ have completed any other work prescribed by the academic board, and

☐ submit to the academic board a declaration signed by the candidate that he/she 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 The minimum academic qualifications for admission to a program leading to a Master of Applied Science (Research) shall be:

☐ possession of a Bachelor degree in Information Technology, Health Science, Applied Science or other approved degree from the Queensland University of Technology, or

☐ possession of an equivalent qualification, or

☐ submission of such other evidence of qualifications as will satisfy the academic board that the applicant possesses the capacity to pursue the course of study.

2.4 Additional requirements for admission to a particular program may be laid down by the academic board.

2.5 In considering an applicant for registration the academic board shall, in addition to assessing the applicant's suitability, assess the proposed program and its relevance to the aims and objectives of the University.

2.6 A candidate may register either as a full-time or as a part-time student. To be registered as a full-time student, a candidate must be able to commit to the course 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.

2.7 A candidate may be internal or external. An external candidate is one whose program of research and investigation is based at a place of employment or sponsoring institution. Normally, support of the sponsoring institution for the candidate's application is required for registration.

2.8 A candidate shall be registered initially as:

☐ a graduate student (provisional), or

☐ a graduate student.

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

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

☐ has satisfied the requirements for admission and achieved by work and study a standard recognised by the academic board, or

☐ has been accepted for provisional registration in the Faculty and has achieved, by subsequent work and study, a standard recognised by the academic board

☐ has satisfied the academic board that he or she is a fit person to undertake the program

☐ has satisfied the academic board that he or she can devote sufficient time to the research and study.

2.10 The academic board may cancel a candidate's registration if:

☐ 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 or her studies or has no reasonable expectation of completing the course of study within the maximum time allowed (see Section 4).

2.11 A candidate whose registration has lapsed or has been cancelled and who wishes subsequently to re-enter the course to undertake a research program which is the same or essentially the same as the previous program may be re-admitted under such conditions as the academic board may prescribe.

3. Course of Study

3.1 A candidate for the degree of Master of Applied Science shall undertake a program of research and investigation on a topic approved by the academic board. All projects should be sponsored either by outside agencies such as industry, government authorities, or professional organisations, or by the University itself.

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

3.3 A candidate may be required by the academic board to undertake an appropriate course of study concurrently with the research program.

The course of study normally will include:

☐ a program of assessed coursework

☐ participation in University scholarly activities such as research seminars, teaching and publication

☐ regular face-to-face interaction with supervisors, and

☐ a program of supervised research and investigation.

3.4 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.

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

3.6 An application for registration should set out systematically and fully the candidate's intended course of study. The description should include the area of study within which the candidate's course lies, the coursework to be undertaken, the proposed title of the

thesis to be written, the aim of the proposed program of research and investigation, its background, the significance and possible application of the research program, and the research plan.

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 12 months has elapsed from initial registration. The corresponding period in the case of a part-time student shall be at least 24 months.

4.2 A registered graduate student shall present the thesis for examination after a period of at least one year for a full-time student or two years for a part-time student has elapsed from the time of confirmed registration, except in the case of special permission granted under 4.4. 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 two years if a full-time student or four years if a part-time student from the date of confirmed registration.

4.4 A registered graduate student who holds an Honours degree appropriate to the course of study may submit the thesis for examination after not less than one year of registration if a full-time student, or two years if a part-time student. In special cases the academic board may approve a shorter period.

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 academic board together with the 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 For each candidate the academic board shall appoint one or more supervisors with appropriate experience provided that, where more than one supervisor is appointed, one shall be nominated as the Principal Supervisor and others as associate supervisors.

5.2 In the case of an internal student, the Principal Supervisor normally shall be from the academic staff of the school where the student carries out the work.

5.3 In the case of an external student, the Principal Supervisor normally shall be from the academic staff of the school supporting the work and at least one associate supervisor shall be from the sponsoring organisation.

5.4 At the end of each six-month period a student shall submit a report on the work undertaken to the Principal Supervisor and the Principal Supervisor shall submit a report to the academic board on the student's work. This report shall be seen by the student before submission to the academic board.

6. Place and Conditions of Work

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

6.2 The academic board shall not admit a candidate to undertake a program of research based at the University unless it has received a statement from the Head of School and/or Director of Centre in which the study is proposed that, in his/her opinion, the applicant is a fit person to undertake a research program leading to the Masters degree, that the program is supported, and that the School/Department is willing to undertake the responsibility of supervising the applicant's work.

6.3 The academic board shall not admit a candidate to undertake a research program based at a sponsoring establishment unless it has received:

☐ a statement from the employer or director of the sponsoring institution that the applicant will be provided with facilities to undertake the research project and that he/she is willing to accept responsibility for supervising the applicant's work, and

☐ a statement from the Head of School or Director of Centre in which the study is proposed that, in his or her opinion, the applicant is a fit person to undertake a research program leading to the Masters degree, that the program is supported, and that after examination of the proposed external facilities and supervision, the School/Department is willing to accept the responsibility of supervising the work.

7. Thesis

7.1 In the form of presentation, availability and copyright, the thesis shall comply with the provisions of the document *Requirements for Presenting Theses*.

7.2 Not later than six months after confirmed registration the candidate shall submit the title of the thesis for approval by the academic board. After approval has been granted, no change shall be made except with the permission of the academic board.

7.3 The candidate shall give two months' notice of intention to submit the thesis. Such notice shall be accompanied by the appropriate fee, if any.

7.4 The thesis shall comply with the following requirements:

☐ A significant portion of the work described must have been carried out subsequent to initial registration for the degree.

☐ It must describe a program of work carried out by the candidate, and must involve either an original contribution to knowledge or an original application of existing knowledge.

☐ It must reach a satisfactory standard of literary presentation.

☐ It shall be the candidate's own account of the work. Where work is carried out conjointly with other persons, the academic board shall be advised of the extent of the candidate's contribution to the joint work.

☐ The thesis shall not contain as its main content any work or material which the student has previously submitted for another degree or similar award.

☐ Supporting documents, such as published papers, may be submitted with the thesis if they have a bearing on the subject of the thesis.

☐ The thesis shall contain an abstract of not more than 300 words.

7.5 Except with the specific permission of the 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 academic board shall appoint at least two examiners of whom at least one shall be from outside the University.

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

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

8.4 On receipt of satisfactory reports from the examiners, and when the provisions of Section 7.1 have been fulfilled, the academic board shall recommend to Academic Committee that the candidate be awarded the degree.

8.5 If the examiners' reports are conflicting, the academic board may, after appropriate consultation with the Principal Supervisor:

☐ seek advice from a further external examiner, or

☐ not award the degree.

8.6 If, on the basis of the examiners' reports, the academic board does not recommend that the degree be awarded then it shall:

☐ permit the candidate to resubmit the thesis within one year for re-examination, or

☐ cancel the candidate's registration.

■ Master of Public Policy (IF64)

Location: Gardens Point campus (elective units may be offered on other campuses)

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

Total Credit Points: 144

Course Coordinator: To be advised

This degree is administered by the School of Management in the Faculty of Business, with the participation of the Faculties of Arts, Built Environment and Engineering, Education, Health, Information Technology, Law and Science.

The normal duration of the course is three semesters for full-time students. The third semester is devoted to the dissertation, which may be undertaken in a summer semester, enabling the course to be completed in one calendar year. The normal duration for part-time students is six semesters. If the dissertation is undertaken over two summer semesters, the course may be completed, part-time, in two calendar years.

Entry Requirements

Applicants for admission to candidature for the degree of Master of Public Policy normally should have at least two years' relevant professional experience, and a Bachelor degree, or equivalent, with a grade point average of 5 or above.

Alternatively, candidates who produce evidence of other qualifications and experience which are considered by the Dean to qualify the candidate for admission may be accepted.

Course Structure

The program structure is divided into two parts. The first part is composed of the eight units, as specified below. The second part consists of the dissertation with a weight of 48 credit points. Each unit will normally have a credit value of 12 points, though, at the discretion of the Course Coordinator, provision can be made for units with a credit value of more or less than 12 credit points provided the total of credit points for coursework units is 96.

The taught units comprise a common core of five units, totalling 60 credit points, plus 36 credit points of applied policy electives selected from an approved list of units, for a total of 96 credit points. Elective, applied policy units will be available from Faculties and Schools participating in the program.

The initial list of elective units is provided below, grouped into policy specialisations. The list of units available will vary over time as schools add and delete relevant units, depending upon demand. As noted above, students must do 36 credit points of electives. Within this 36 credit points, students must undertake a minimum of 24 credit points from one specialisation. The remaining 12 credit points may be taken from the selected specialisation or from any of the other listed specialisations. Students may select any of the listed units provided that they have the necessary prerequisites.

Students who successfully complete the taught units, normally with a GPA of at least 4.0, are required to write a dissertation on an area of interest in the public policy field of not more than 30 000 words.

Credit and/or unit substitutions may be granted up to a maximum of 48 credit points with the approval of the Course Coordinator. In the case of unit substitutions, the substituted unit will be a policy oriented unit chosen by the student and subject to the approval of the Course Coordinator.

All students undertake a research dissertation. Each student will be assigned to a supervisor, subject to the approval of the Course Coordinator, in consultation with the relevant Head of School. In general, the supervisor will be responsible for providing guidance in relation to the choice, preparation and submission of the dissertation.Both supervisor and student will observe QUT's Code of Good Practice in relation to the duties of a supervisor and student (refer to the University Manual of Policy and Procedures (MOPP), Appendix 66). The dissertation will be presented in accord with QUT policy, as listed in the MOPP, Appendix 51.

Supervisors shall be appointed when students commence the Research Seminar unit. The supervisor shall not be an examiner of the dissertation. The dissertation will be examined by an examining committee of at least three, appointed by the Dean, and consist of at least two examiners, one of whom may be external to the University, plus the Course Coordinator, who will act as chair of the examining committee.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
MGN516	Policy Analysis	12	3
MGN517	Program Management & Evaluation	12	3
EFN403	Economics and Public Policy	12	3
	Applied Policy Elective Unit	12	
Semester 2			
MGN522	Research Seminar	12	3
LWS010	Public Law	12	3
	Applied Policy Elective Unit	12	
	Applied Policy Elective Unit	12	
Semester 3			
MGN520	Research Dissertation	48	
Part-Time Course Structure			
Semester 1			
MGN516	Policy Analysis	12	3
EFN403	Economics and Public Policy	12	3

Semester 2

MGN522	Research Seminar	12	3
LWS010	Public Law	12	3

Semester 3

MGN517	Program Management & Evaluation	12	3
	Applied Policy Elective Unit	12	

Semester 4

	Applied Policy Elective Unit	12	
	Applied Policy Elective Unit	12	

Semester 5

MGN520	Research Dissertation	24	

Semester 6

MGN520	Research Dissertation	24	

Applied Policy Elective Specialisations

The applied policy electives offer a wide range of choice to the student. At present the following specialisations are available. Apart from a wide range of available policy areas, those students wishing to develop specific skills in the area of financial analysis and management may wish to select the financial management specialisation option which has been provided.

Economic Policy

EFN404	Environmental Economics and Policy	12	3
EFN408	Special Topic – Economics, Banking & Finance	12	3
EFN502	Developments in Microeconomic Theories	12	3
EFN500	Contemporary Macroeconomic Theories	12	3
MIN403	Business in Asia	12	3
MIN404	Business in Europe	12	3
MIN405	Business in North America	12	3

Education Policy

CPN604	Equity & Educational Management: Issues & Strategies	12	3
CPN607	Global Change, Diversity & Education	12	3
CPN608	Gender Equity and Education Policy	12	3
CPN609	Policy for Practitioners	12	3
CPN610	Youth Policies and Post-compulsory Education	12	3
EAN602	Early Childhood Services and Policies	12	3

Environmental Policy

EFN404	Environmental Economics and Policy	12	3
LWN049	International Environmental Law	12	2
LWN060	Environmental Legal System	12	2
LWN061	Natural Resources Law	12	2
LWN062	Federal Environmental Law	12	2

Financial Management

AYN403	Accounting Principles	12	3
AYN428	Management Accounting	12	3
EFN400	Advanced Capital Budgeting	12	3
EFN401	Advanced Financial Institutions Management	12	4
EFN406	Managerial Finance	12	3
EFN408	Special Topic – Economics, Banking & Finance	12	3
EFN501	Corporate & Commercial Lending	12	3
EFN503	Economic & Financial Modelling	12	3
EFN505	Financial Risk Management	12	3
EFN506	International Finance	12	3

Health Policy

PUN601	Contemporary Health Policies	12	3
PUN608	Economics and Health	12	3
PUN610	Health Services Management	12	3
PUN612	Advanced Health Evaluation	12	3

PUN613	Public Health Interventions: Principles and Practice	12	3
PUN692	Health Care Delivery Systems	12	3
PUP010	Health in Australian Society	12	3
PUP022	Health Promotion Concepts and Policy: A Critical Analysis	12	3

Housing and Urban Policy

CEP131	Engineering Management and Administration	12	3
PSN111	Comparative Planning Theory	6	2
PSN112	Concentration Studies	12	2.5
PSN114	Metropolitan Planning Practice and Law	12	3
PSN123	Planning in Developing Countries	6	2
PSN124	Option Course	12	2
PSN125	Housing Policy & Housing Problems: An International Perspective	12	3
PSN126	Australian Housing System and Policies	12	3
PSP434	Urban Services and Functions	4	1

Human Resources and Industrial Relations Policy

GSN205	Managing Human Resources	12	3
MGN410	Labour–Management Relations	12	3
MGN504	Business Policy	12	3
MGN407	Industrial Relations Strategies and Policies	12	3
MGN405	Industrial Relations and the Economy	12	3

Industry Policy

EFN404	Environmental Economics and Policy	12	3
MIN401	Australian Foreign Affairs and Business	12	3
MIN403	Business in Asia	12	3
MIN404	Business in Europe	12	3
MIN405	Business in North America	12	3
MIN430	The Arts Industry	12	3
MIN431	Tourism Development	12	3
MIN433	Tourism: National and International	12	3

Information Technology and Communication Policy

ITN220	Major Issues in Information Systems	12	3
ITN340	Information Agencies	12	3
ITN341	Information Policy & Planning	12	3
MJP102	Media Policy Environment	12	3

Public Policy in the International Context

MIN426	Special Topic – International Business	12	3
MIN406	Comparative Regulatory Systems	12	3
MIN401	Australian Foreign Affairs and Business	12	3
MIN403	Business in Asia	12	3
MIN404	Business in Europe	12	3
MIN405	Business in North America	12	3
EFN506	International Finance	12	3
MGN401	Comparative Industrial Relations	12	3
LWN049	International Environmental Law	12	2

Science and Technology Policy

CHP920	Technology Assessment and Forecasting	12	3
MGN523	Science and Technology Policy	12	3

■ Master of Quality (IF66)

This course is currently being revised. Enrolled students should consult the 1995 Handbook for continuing course information.

■ Graduate Diploma in Quality (IF69)

This course is currently being revised. Enrolled students should consult the 1995 Handbook for continuing course information.

■ Honours Degrees

1. General

1.1 These regulations apply to Honours degrees consisting of an additional year of full-time study (or equivalent) following completion of an undergraduate pass degree. The policy does not apply to pass degrees which may be awarded with Honours.

1.2 Faculties are required to make a submission to Academic Committee for an Honours program in the form of a new course proposal. Such a proposal should seek approval for a single Honours program covering the full range of majors offered within an undergraduate award, whether or not all majors are to be offered at Honours level.

1.3 Faculties are expected to produce statements of procedures to be read with, or which may incorporate, this policy statement.

1.4 Each Honours program will be assigned a separate quota.

2. Admission to an Honours Degree

2.1 Students who wish to undertake an Honours program should normally apply for admission to it at the end of the final year of their pass degree, or within 18 months of completing that degree.

2.2 In order to be considered eligible for admission, students should have attained a grade point average of at least 5.0 or an average grade of credit over the entire basic course, including grades of at least credit in all units directly relevant to, or specified as prerequisite for, the proposed Honours program.

2.3 However, students who have demonstrated outstanding performance in only the final year of a degree, or whose application is based on other factors including work experience or involvement in research, may be admitted at the discretion of the Dean.

3. Duration

3.1 Except in special circumstances as approved by the Dean, the requirements for an Honours degree must be completed within two successive years following first enrolment.

4. Program Requirements

4.1 Honours programs must comprise one year of full-time study or equivalent with at least 25 per cent but not more than 50 per cent of the credit points associated with the course to be allocated to a project or dissertation.

4.2 Faculties are responsible for providing candidates with program outlines which specify the distribution of credit point load between project/dissertation and coursework, the procedure for project or dissertation approval and a concise statement of Faculty requirements, supervision arrangements, and procedures for examining project reports and dissertations.

5. Unsatisfactory Progress

5.1 Failure to make satisfactory progress with either the coursework component of an Honours program or with the project/dissertation, or both, may lead to exclusion from the program.

5.2 Unsatisfactory progress consists of:

☐ receiving a grade of less than 4 (or 'Satisfactory', where applicable) in one unit of the coursework component

☐ failure to make sufficient progress with the project or dissertation component, in the opinion of the Dean.

5.3 A student who is excluded from or otherwise fails to complete an Honours program will not normally be readmitted to that program.

6. Assessment

6.1 The minimum grade which may be credited towards an Honours degree is 4 (or 'Satisfactory', where applicable).

6.2 A minimum of three copies of a dissertation should be presented to the supervisor for examination. Dissertations should be temporarily bound in order to facilitate the making of any revisions and editorial changes required by examiners before final printing and binding.

6.3 Project reports and dissertations will be examined by an examining committee appointed by the Dean and consisting of at least two examiners, one of whom may be external to the University. The supervisor of the candidate's work may be a member of the committee but may not chair the committee or act as the primary examiner.

7. Determination of Level of Honours Awards

7.1 The Faculty academic board, on advice from the School, will determine the level of Honours to be awarded.

7.2 Honours degrees will be awarded at the following levels after account is taken of the candidate's performance in all units and appropriate weight applied to the project or dissertation:

Honours 1	First Class Honours
Honours 2A	Second Class Honours, Division A
Honours 2B	Second Class Honours, Division B
Honours 3	Third Class Honours

7.3 The level of Honours award is to be determined by guidelines, as follows:

Honours 1	Grade point average of 6.50-7.00, or equivalent
Honours 2A	Grade point average of 5.50-6.49, or equivalent
Honours 2B	Grade point average of 4.50-5.49, or equivalent
Honours 3	Grade point average of 4.00-4.49, or equivalent.

7.4 A candidate who does not reach the standard required for Honours 3 remains with a pass degree.

■ Bachelor of Applied Science/Bachelor of Laws (IF34)

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 528

Standard Credit Points/Full-Time Semester: 52.8

Course Coordinators:
Science: Dr Don Field
Law: Professor Malcolm Cope

Professional Recognition

For information on the academic requirements of the Solicitors' or Barristers' Board of Queensland please refer to the section on professional recognition in the Bachelor of Laws course entry in the Faculty of Law section of the Handbook.

Full-Time Course Structure	Credit Points	Contact Hrs/Wk

For detailed information on the range and availablility of units within the applied sciences refer to the entry for Bachelor of Applied Science (SC30) in the Faculty of Science section.

Year 1, Semester 1

LWB130	Introduction to Study in Law (2 weeks)		
LWB131/1	Law in Context	12	3
LWB134	Research & Legal Reasoning	12	3
	3 Science Units from the SC30 First Schedules[1]	36	

Year 1, Semester 2

LWB131/2	Law in Context	12	3
LWB135	Legislation	12	3
	3 Science Units from the SC30 First Schedules[1]	36	

Year 2, Semester 1

LWB132/1	Contracts	12	3
	3 Science Units from the SC30 Second Schedules[1]	36	

Year 2, Semester 2

LWB132/2	Contracts	12	3
	3 Science Units from the SC30 Second Schedules[1]	36	

Year 3, Semester 1

LWB133/1	Torts	12	4
LWB232/1	Criminal Law & Procedure	12	3
	2 Science Units from the SC30 Third Schedules[1]	24	

Year 3, Semester 2

LWB133/2	Torts	12	4
LWB232/2	Criminal Law & Procedure	12	3
	2 Science Units from the SC30 Third Schedules[1]	24	

Year 4, Semester 1

LWB231	Introduction to Public Law	12	3
LWB233/1	Property 1	12	3
LWB234/1	Equity & Trusts	12	3
LWB332	Property 2	12	3
LWB331	Administrative Law	12	3

Year 4, Semester 2

LWB233/2	Property 1	12	3
LWB234/2	Equity & Trusts	12	3
LWB235	Australian Federal Constitutional Law	12	3
LWB333	Theories of Law	12	3
LWB334	Corporate Law	12	3

Year 5, Semester 1

LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units[2]	24	

Year 5, Semester 2

LWB433	Professional Responsibility	12	3
LWB434	Advanced Research & Legal Reasoning	12	3
	Elective Units[2]	24	

[1] *Students will be required to attend an advisory session with an academic adviser to select their Science units.*

[2] *A student is required to complete 48 credit points of elective units. A student may undertake, as electives, units offered by other Faculties or Schools but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the Faculty or School responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units selected form a coherent program.*

Elective Units

For availability of law elective units, refer to relevant section in the Bachelor of Laws course entry in the Faculty of Law section. The offering of elective units in any semester is dependent upon sufficient minimum enrolments in the unit and the availability of staff. The selection of all elective units is subject to the approval of the Associate Dean of the Faculty of Law.

Cooperative Education Program

Any student who has completed the first three years of the course normally with a GPA of not less than 4.5 overall, may, at the discretion of the Assistant Dean – Academic Affairs in the Faculty of Science and the Associate Dean in the Faculty of Law, undertake a Cooperative Education option. This involves 10–12 months of paid full-time employment in an approved industrial/commercial environment during which time the student is enrolled in the unit SCB100 Cooperative Education. On completion of the approved cooperative education placement the student resumes formal studies.

■ Bachelor of Applied Science (Mathematics)/Bachelor of Information Technology (IF58)

Location: Gardens Point campus

Course Duration: 4 years full-time

Total Credit Points: 420

Standard Credit Points/Full-Time Semester: 52.5 (average)

Course Coordinators:
Mathematics: Mr Gary Carter
Information Technology: Professor Colin Boyd

Course Structure

Students must complete at least 120 credit points from List C and List D Mathematics units with at least 48 units from List D.

Cooperative Education Program

An optional one-year paid work experience is available to eligible students at the end of the third year of full-time study. Students participating in this program enrol in ITB904 – Industrial Training Experience, a 24 credit point unit.

Note: A minimum grade of 4 is normally required to fulfil the prerequisite requirements for all units in the course.

□ Common First Year

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CSB155	Introduction to Computing	12	4
ITB210	Formal Representation	12	3
MAB301	Calculus & Analysis A	12	4
MAB303	Algebra & Analysis B	12	4
MAB347	Statistics 1A	12	4
Year 1, Semester 2			
ITB412	Technology of Information Systems	12	3
ITB102	Laboratory 2 (Computer Applications)	12	3

ITB411	Software Development 2	12	3
MAB304	Calculus & Vector Algebra	12	4
MAB342	Mathematics of Finance	12	4

INFORMATION TECHNOLOGY PRIMARY MAJOR

At the end of the Common First Year, students choose an Information Technology Primary Major. Primary Majors are available in the following areas:

A: Computing Science
B: Data Communications
C: Database Systems (subject to final approval)
D: Information Management
E: Information Systems
F: Software Engineering

A: Computing Science Primary Major

Major Coordinator: Dr Gerard Finn

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
BSB118	Business Communication & Application Systems	12	3
ITB421	Data Structures & Algorithms	12	3
ITB422	Laboratory 3 (ADTs in a Unix environment)	12	3
MAB321	Computational Mathematics 1	12	4
MAB348	Statistics 1B	12	4
Year 2, Semester 2			
ITB424	Software Engineering Principles	12	3
ITB520	Data Communications	12	3
	Mathematics unit selected from List C	12	4
	Mathematics unit selected from List C	12	4
Year 3, Semester 1			
ITB420	Computer Architecture	12	3
ITB423	Laboratory 4 (Software Development)	12	3
	Mathematics unit selected from List C	12	4
	Mathematics unit selected from List C	12	4
Year 3, Semester 2			
ITB430	Concurrent Systems	12	3
ITB431	Programming Language Paradigms	12	3
	Mathematics unit selected from List C	12	4
	Mathematics unit selected from List C	12	4
Year 4, Semester 1			
	Extended Major/Minor Options Unit	12	3
	Extended Major/Minor Options Unit	12	3
	Mathematics unit selected from List D	12	4
	Mathematics unit selected from List D	12	4
Year 4, Semester 2			
	Extended Major/Minor Options Unit	12	3
	Extended Major/Minor Options Unit	12	3
	Mathematics unit selected from List D	12	4
	Mathematics unit selected from List D	12	4

B: Data Communications Primary Major

Major Coordinator: Mr Neville Richter

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
BSB118	Business Communication & Application Systems	12	3
ITB422	Laboratory 3 (ADTs in a UNIX Environment)	12	3
ITB520	Data Communications	12	3
MAB321	Computational Mathematics 1	12	4
MAB348	Statistics 1B	12	4
Year 2, Semester 2			
ITB521	Laboratory 3 (Computer Networks)	12	3
ITB522	Advanced Data Communications	12	3
MAB620	Finite Mathematics	12	4
	Mathematics unit selected from List C	12	4
Year 3, Semester 1			
ITB530	Transport Protocols	12	3
ITB531	Applications Services	12	3
MAB630	Linear Algebra and Its Applications	12	4
MAB637	Operations Research 1A	12	4
Year 3, Semester 2			
ITB532	Laboratory 4 (Network Management)	12	3
MAB638	Operations Research 1B	12	4
	Data Communications Elective	12	3
	Mathematics unit selected from List C	12	4
Year 4, Semester 1			
	Extended Major/Minor Options Unit	12	3
	Extended Major/Minor Options Unit	12	3
	Mathematics unit selected from List D	12	4
	Mathematics unit selected from List D	12	4
Year 4, Semester 2			
	Extended Major/Minor Options Unit	12	3
	Extended Major/Minor Options Unit	12	3
	Mathematics unit selected from List D	12	4
	Mathematics unit selected from List D	12	4

Data Communications Elective Unit

Subject to the approval of the Major Coordinator, students may choose the elective from Data Communications extended majors or minors or, depending on the course program choice, from other Schools within the Faculty.

C: Database Systems Primary Major (subject to final approval)

Major Coordinator: Mr David Edmond

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
BSB118	Business Communication & Application Systems	12	3
ITB220	Database Design	12	3
ITB222	Systems Analysis & Design 1	12	3
MAB321	Computational Mathematics 1	12	4
MAB348	Statistics 1B	12	4
Year 2, Semester 2			
ITB221	Lab 3 (Commercial Programming)	12	3
ITB246	Unix & C	12	3
	Mathematics unit selected from List C	12	4
	Mathematics unit selected from List C	12	4

Year 3, Semester 1

ITB233	File Structures	12	3
ITB236	Object-Oriented Analysis & Design	12	3
	Mathematics unit selected from List C	12	4
	Mathematics unit selected from List C	12	4

Year 3, Semester 2

ITB232	Database Management	12	3
ITB249	The Theoretical Foundations of Database Systems	12	3
	Mathematics unit selected from List C	12	4
	Mathematics unit selected from List C	12	4

Year 4, Semester 1

	Extended Major/Minor Options Unit	12	3
	Extended Major/Minor Options Unit	12	3
	Mathematics unit selected from List D	12	4
	Mathematics unit selected from List D	12	4

Year 4, Semester 2

	Extended Major/Minor Options Unit	12	3
	Extended Major/Minor Options Unit	12	3
	Mathematics unit selected from List D	12	4
	Mathematics unit selected from List D	12	4

D: Information Management Primary Major

Major Coordinator: Mr Michael Middleton

Full-Time Course Structure		**Credit Points**	**Contact Hrs/Wk**
Year 2, Semester 1			
BSB118	Business Communication & Application Systems	12	3
ITB310	Information Management 1	12	3
MAB321	Computational Mathematics 1	12	4
MAB348	Statistics 1B	12	4
Year 2, Semester 2			
ITB220	Database Design	12	3
ITB520	Data Communication	12	3
	Mathematics unit selected from List C	12	4
	Mathematics unit selected from List C	12	4
Year 3, Semester 1			
ITB320	Laboratory 3 (Database Applications)	12	3
ITB321	Systems Analysis	12	3
ITB322	Information Resources	12	3
	Mathematics unit selected from List C	12	4
	Mathematics unit selected from List C	12	4
Year 3, Semester 2			
ITB323	Laboratory 4 (Information Support Methods)	12	3
	Extended Major/Minor Options Unit	12	3
	Mathematics unit selected from List C	12	4
	Mathematics unit selected from List C	12	4
Year 4, Semester 1			
ITB330	Information Issues & Values	12	3
ITB331	Information Management 2	12	3
	Mathematics unit selected from List D	12	4
	Mathematics unit selected from List D	12	4
Year 4, Semester 2			
	Extended Major/Minor Options Unit	12	3
	Extended Major/Minor Options Unit	12	3
	Mathematics unit selected from List D	12	4
	Mathematics unit selected from List D	12	4

E: Information Systems Primary Major

Major Coordinator: Mr Hamish Bentley

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
BSB118	Business Communication & Application Systems	12	3
ITB220	Database Design	12	3
ITB520	Data Communications	12	3
MAB321	Computational Mathematics 1	12	4
MAB348	Statistics 1B	12	4
Year 2, Semester 2			
ITB221	Laboratory 3 (Commercial Programming)	12	3
ITB223	Laboratory 4 (4GL Programming)	12	3
	Mathematics unit selected from List C	12	4
	Mathematics unit selected from List C	12	4
Year 3, Semester 1			
ITB222	Systems Analysis & Design 1	12	3
ITB231	Applications Development	12	3
	Mathematics unit selected from List C	12	4
	Mathematics unit selected from List C	12	4
Year 3, Semester 2			
ITB224	Systems Analysis & Design 2	12	3
ITB233	File Structures	12	3
	Mathematics unit selected from List C	12	4
	Mathematics unit selected from List C	12	4
Year 4, Semester 1			
	Extended Major/Minor Options Unit	12	3
	Extended Major/Minor Options Unit	12	3
	Mathematics unit selected from List D	12	4
	Mathematics unit selected from List D	12	4
Year 4, Semester 2			
	Extended Major/Minor Options Unit	12	3
	Extended Major/Minor Options Unit	12	3
	Mathematics unit selected from List D	12	4
	Mathematics unit selected from List D	12	4

F: Software Engineering Primary Major

Major Coordinator: Mr Richard Thomas

Full-Time Course Structnre		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
BSB118	Business Communication & Application Systems	12	3
ITB222	Systems Analysis & Design 1	12	3
ITB421	Data Structures & Algorithms	12	3
MAB321	Computational Mathematics 1	12	4
MAB348	Statistics 1B	12	4
Year 2, Semester 2			
ITB422	Laboratory 3 (ADTs in a Unix environment)	12	3
ITB424	Software Engineering Principles	12	3
	Mathematics unit selected from List C	12	4
	Mathematics unit selected from List C	12	4
Year 3, Semester 1			
ITB448	Object Technology	12	3
ITB454	Software Quality Assurance	12	3

	Mathematics unit selected from List C	12	4
	Mathematics unit selected from List C	12	4

Year 3, Semester 2

ITB423	Laboratory 4 (Software Development)	12	3
ITB455	Integrated Software Engineering Environments	12	3
	Mathematics unit selected from List C	12	4
	Mathematics unit selected from List C	12	4

Year 4, Semester 1

	Extended Major/Minor Options Unit	12	3
	Extended Major/Minor Options Unit	12	3
	Mathematics unit selected from List D	12	4
	Mathematics unit selected from List D	12	4

Year 4, Semester 2

	Extended Major/Minor Options Unit	12	3
	Extended Major/Minor Options Unit	12	3
	Mathematics unit selected from List D	12	4
	Mathematics unit selected from List D	12	4

LIST C: MATHEMATICS UNITS
Semester 1

MAB601	Multivariable Calculus	12	4
MAB618	Computational Mathematics 2	12	4
MAB630	Linear Algebra & Its Applications	12	4
MAB637	Operations Research 1A	12	4
MAB641	Actuarial Mathematics	12	4
MAB647	Statistics 2A	12	4

Semester 2

MAB612	Differential Equations	12	4
MAB618	Computational Mathematics 2	12	4
MAB620	Finite Mathematics	12	4
MAB632	Mathematical Modelling	12	4
MAB637	Operations Research 1A	12	4
MAB638	Operations Research 1B	12	4
MAB642	Methods of Mathematical Economics	12	4
MAB648	Statistics 2B	12	4

LIST D: MATHEMATICS UNITS
Statistics
Semester 1

MAB907	Statistics 3A	12	4
MAB970	Probability Theory & Stochastic Processes	12	4
SCB510	Introduction to Quality Management	12	4

Semester 2

MAB908	Statistics 3B	12	4
MAB929	Time Series & Statistical Forecasting	12	4
MAB974	Sampling & Survey Techniques	12	4

Quantitative Analysis
Semester 1

MAB927	Operations Research 2A	12	4
MAB941	Mathematical Modelling in Economics	12	4

Semester 2

MAB928	Operations Research 2B	12	4
MAB971	Advanced Mathematics of Finance	12	4

Applicable Mathematics
Semester 1

MAB911	Computational Maths 3A	12	4
MAB933	Mathematical Biology	12	4
MAB942	Optimisation Methods	12	4

Semester 2

MAB912	Continuum Modelling	12	4
MAB913	Computational Mathematics 3B	12	4
MAB973	Partial Differential Equations	12	4

Other Options
Semester 1

MAB906	Topics in Analysis	12	4

Semester 2

MAB960	Project Work	12	4

Information Technology Extended Major/Minor Options

Either:

1. Extended Major (48 credit points)

OR

2. A Minor (48 credit points)

OR

3. Cooperative Education Program and 2 units (48 credit points) – Eligible students only

EXTENDED INFORMATION TECHNOLOGY MAJORS

A: COMPUTING SCIENCE EXTENDED MAJOR
(for Computing Science primary major students only)

ITB440	Language & Language Processing	12	3
ITB446	Project	12	
	Computing Science Elective Unit	12	3
	Computing Science Elective Unit	12	3

Computing Science Electives
First Semester Electives

ITB441	Graphics	12	3
ITB442	Foundations of Artificial Intelligence	12	3
ITB443	Systems Programming	12	3
ITB444	Special Studies 1	12	3
ITB447	Project	12	
ITB448	Object Technology	12	3
ITB451	Project	24	
ITB454	Software Quality Assurance	12	3
ITB457	Functional Programming	12	3
ITB461	Foundations of Neurocomputing	12	3
ITB463	Foundations of Pattern Recognition	12	3

Second Semester Electives

ITB443	Systems Programming	12	3
ITB445	Special Studies 2	12	3
ITB449	Expert Systems	12	3
ITB451	Project	24	
ITB453	Project	24	
ITB455	Integrated Software Engineering Environment	12	3
ITB456	Intelligent Graphic User Interfaces	12	3

B: DATA COMMUNICATIONS EXTENDED MAJOR
(for Data Communications Primary Major students only)
Students may select one of the following three extended majors:

1a: Data Communications Extended Major (Network Systems)

ITB533	Comparative Network Systems	12	3
ITB542	Network Programming	12	3
ITB544	Project	12	
	Data Communications Elective Unit	12	3

1b: Data Communications Extended Major (Telecommunications)

ITB534	Telecommunications Modelling	12	3
ITB544	Project	12	
	Data Communications Elective Unit	12	3
	Data Communications Elective Unit	12	3

1c: Data Communications Extended Major (Information Security)

ITB544	Project	12	
ITB548	Introduction to Cryptology	12	3
ITB549	Error Control & Data Compression	12	3
	Data Communications Elective Unit	12	3

Data Communications Elective Units

Students may choose electives from any unit offered within the Data Communications major and extended majors plus the units listed below (the offering of elective units depends on sufficient minimum enrolments and availability of staff).

BSB115	Management, People & Organisations	12	3
ITB448	Object Technology	12	3
ITB541	Transmission Techniques	12	3
ITB543	Information Security	12	3

C: INFORMATION MANAGEMENT EXTENDED MAJOR
(for Information Management Primary Major students only)

ITB340	Project	12	
ITB341	Information Management 3	12	3
SSB937	Applied Cognitive Psychology	12	3
	Information Management Elective Unit	12	3

D: INFORMATION SYSTEMS EXTENDED MAJOR
(for Information Systems Primary Major students only)
Students may select one of the following two extended majors:

Information Systems Extended Major 1

ITB232	Database Management	12	3
ITB240	Project	12	
ITB241	Information Systems Management	12	3
	Information Systems Elective Unit	12	3

Information Systems Electives

First Semester Electives

ITB231	Applications Development	12	3
ITB236	Object-oriented Analysis & Design	12	3
ITB242	Decision Support Systems	12	3
ITB244	Special Topic 1	12	3
ITB247	Project	12	

Second Semester Electives

ITB235	Multimedia Systems Technologies	12	3
ITB243	Knowledge-Based Systems	12	3
ITB245	Special Topic 2	12	3
ITB246	Unix and C	12	3
ITB249	Theoretical Foundations of Database Systems	12	3

Information Systems Extended Major 2

ITB232	Database Management	12	3
ITB236	Object-oriented Analysis & Design	12	3
ITB243	Knowledge-based Systems	12	3
ITB249	Theoretical Foundations of Database Systems	12	3

E: SOFTWARE ENGINEERING EXTENDED MAJOR
(for Software Engineering Primary Major students only)

ITB446	Project	12	

ITB456	Intelligent Graphic User Interfaces	12	3
	Software Engineering Elective Unit	12	3
	Software Engineering Elective Unit	12	3

Software Engineering Electives

First Semester Electives

ITB220	Database Design	12	3
ITB420	Computer Architecture	12	3
ITB430	Concurrent Systems	12	3
ITB431	Programming Language Paradigms	12	3
ITB441	Graphics	12	3
ITB451	Project	24	
ITB520	Data Communications	12	3

Second Semester Electives

ITB223	Laboratory 4 (4GL Programming)	12	3
ITB224	Systems Analysis & Design 2	12	3
ITB420	Computer Architecture	12	3
ITB430	Concurrent Systems	12	3
ITB431	Programming Language Paradigms	12	3
ITB440	Languages & Language Processing	12	3
ITB450	Advanced Computer Architecture	12	3
ITB451	Project	24	
ITB453	Project	24	

Information Technology Minors (48 Credit Points)

Minors are available from other Faculties as well as from the Faculty of Information Technology. It is the responsibility of the student to check prerequisite requirements and the availability and suitability of minors prior to enrolment. The choice of minors is subject to the approval of the Course Coordinator.

COMPUTER SCIENCE MINORS

Computing Science Minor 1
(for Data Communications Primary Major students)

ITB421	Data Structures & Algorithms	12	3
ITB422	Laboratory 3 (ADTS in an Unix Environment)	12	3
	Computing Science Elective Unit	12	3
	Computing Science Elective Unit	12	3

Computing Science Minor 2
(for Information Management Primary Major students)

BSB115	Management, People & Organisations	12	3
ITB421	Data Structures & Algorithms	12	3
ITB422	Laboratory 3 (ADTS in an Unix Environment)	12	3
	Computing Science Elective Unit	12	3

Computing Science Minor 3
(for Information Systems Primary Major students)

ITB421	Data Structures & Algorithms	12	3
ITB431	Programming Language Paradigms	12	3
	Computing Science Elective Unit	12	3
	Computing Science Elective Unit	12	3

Computing Science Minor 4
(for Software Engineering Primary Major students)

ITB420	Computer Architecture	12	3
ITB430	Concurrent Systems	12	3
ITB431	Programming Language Paradigms	12	3
	Computing Science Elective Unit	12	3

Computational Intelligence Minor

ITB442	Foundations of Artificial Intelligence	12	3
ITB461	Foundations of Neurocomputing	12	3
	plus two of:		
ITB456	Intelligent Graphic User Interfaces	12	3
ITB462	Cognitive Systems	12	3
ITB463	Pattern Recognition	12	3

DATA COMMUNICATIONS MINOR

(for non-Data Communications Primary Major students)

ITB521	Laboratory 3 (Computer Networks)	12	3
ITB522	Advanced Data Communications	12	3
	Data Communications Elective Unit	12	3
	Data Communications Elective Unit	12	3

INFORMATION MANAGEMENT MINORS

Information Management Minor

(for non-Information Management Primary Major students)

ITB323	Laboratory 4 (Information Support Methods)	12	3
ITB330	Information Issues & Values	12	3
ITB331	Information Management 2	12	3
	Information Management Elective Unit	12	3

Library Services Minor

BSB115	Management, People & Organisations	12	3
ITP327	Information Organisation 1	12	3
ITP328	Information Sources 1	12	3
ITP329	Information Resources Provision	12	3

Records Management Minor

BSB115	Management, People & Organisations	12	3
ITP312	Organisation of Knowledge	12	3
ITP316	Field Experience	4	
ITP323	Introduction to Records Management	8	2
	Information Systems elective	12	3

INFORMATION SYSTEMS MINORS

Information Systems Minor 1

(for Computing Science, Data Communications and Software Engineering Primary Major students)

ITB220	Database Design	12	3
ITB222	Systems Analysis & Design	12	3
ITB241	Information Systems Management	12	3
	Information Systems Elective Unit	12	3

Information Systems Minor 2

(for Information Management Primary Major students)

BSB115	Management, People & Organisations	12	3
ITB242	Decision Support Systems	12	3
	Information Systems Elective Unit	12	3
	Information Systems Elective Unit	12	3

Information Systems Minor 3

(for Computing Science and Software Engineering Primary Major students)

ITB221	Laboratory 3 (Commercial Programming)	12	3
ITB236	Object-oriented Analysis & Design	12	3
ITB243	Knowledge-based Systems	12	3
ITB249	Theoretical Foundations of Database Systems	12	3

SOFTWARE ENGINEERING MINORS
Software Engineering Minor 1
(for Computing Science Primary Major students)

ITB448	Object Technology	12	3
ITB454	Software Quality Assurance	12	3
ITB455	Integrated Software Engineering Environment	12	3
ITB456	Intelligent Graphic User Interfaces	12	3

Software Engineering Minor 2
(for Data Communications, Database Systems, Information Management or Information Systems Primary Major students)

ITB421	Data Structure & Algorithms	12	3
ITB424	Software Engineering Principles	12	3
ITB454	Software Quality Assurance	12	3

Select one of the following units:

ITB423	Laboratory 4 (Software Development)	12	3
ITB448	Object Technology	12	3
ITB455	Integrated Software Engineering Environments	12	3
ITB456	Intelligent Graphic User Interfaces	12	3

INFORMATION SYSTEMS/SOFTWARE ENGINEERING MINOR
(for Data Communications Primary Major students)

ITB220	Database Design	12	3
ITB222	Systems Analysis & Design	12	3
ITB420	Computer Architecture	12	3
ITB448	Object Technology	12	3

☐ Cooperative Education Program

(Elective Unit ITB904 – Industrial Training Experience)

Aims

The purpose of the Cooperative Education Program is to provide students within the Bachelor of Applied Science (Mathematics)/Bachelor of Information Technology experience of a real world environment prior to the study of the more advanced aspects of the course. This experience:

(i) enables the student to place the concepts learned in the first three years in context, and

(ii) provides an experience that will enhance the benefits obtained from early study.

The Cooperative Education period necessarily involves reorientation and on-the-job training but students are expected to apply study skills to the acquisition of the necessary knowledge and, in general, employers are not expected to provide formal training.

Selection Criteria

The Cooperative Education Program is available to full-time students enrolled in the sixth semester of the Bachelor of Applied Science(Mathematics)/Bachelor of Information Technology degree (IF58), i.e. who will have credit points in the range of 176–224 by the end of the year prior to the commencement of the program. Students are eligible to participate in the program if they have passed all units, or have a GPA (Grade Point Average) of at least 4.5. Students entering the course with exemptions for prior studies must have been exempted from no more than 96 credit points.

Features

The Cooperative Education Program is offered under the guise of the 24 credit point unit ITB904 Industrial Training Experience and has the following features:

- The Faculty assists students to obtain suitable employment for the one-year period and also discusses the nature of the work to be undertaken with the employer. As employers choose their placements from interviews, the Faculty also arranges for students to attend sessions on interview techniques conducted by the Counselling Centre.

- An academic member of staff normally visits the student once per semester and discusses progress with the student and a representative of the employer.

- During the training period the student writes two reports on the experience, submits them to the employer for endorsement and comment, and then hands them to the Administration Officer (Academic), Faculty of Information Technology, for assessment. The reports should highlight different aspects of the period, and include comments and recommendations.

- Students will be assessed as either satisfactory or unsatisfactory in this unit. A satisfactory grade will be granted on the basis of:

    (i) satisfactory completion of an approved period of cooperative education, and

    (ii) submission of satisfactory reports on the year's experience. The reports must be submitted not later than the due dates specified in the study guides.

- A salary is paid to the student by the employer during this training period.

- The Faculty carefully monitors all Cooperative Education placements and keeps a list of employers prepared to offer training. The Faculty makes its best endeavour to find suitable training places for all students who meet the selection criteria and elect to undertake this option.

- It is intended that full-time students on the scheme will devote their prime efforts to the Industrial Training Experience and will not, therefore, be permitted to register for more than one other unit per semester during that year.

Notes

(i)   Where there has been significant evidence of plagiarism or computer misuse by a student at any time during the course, no placement will be available to that student.

(ii)   Part-time students may be eligible for credit for industry experience, subject to certain conditions. Students should consult the Administration Officer (Academic) in the Faculty of Information Technology for further information.

■ Bachelor of Applied Science (in Human Movement Studies)/ Bachelor of Education (IF73)

Location: Kelvin Grove campus

Course Duration: 4 years full-time

Total Credit Points: 432

Standard Credit Points/Full-time Semester: 54 (average)

Course Coordinators:
Human Movement Studies: Dr Tom Cuddihy
Education: Mr John Whitta

Full-Time Course Structure

The order of Education Studies units may vary from that shown in semesters 6, 7 and 8 in years prior to 1998. All students are required to attend academic advising sessions to plan

their progression through the course and to obtain the approval of an academic adviser prior to any subsequent change of enrolment.

Year 1, Semesters 1 and 2; Year 2, Semesters 1 and 2; Year 3, Semester 1
Completion of 240 credit points in units offered by the Faculty of Health as approved in accordance with requirements specified for the Bachelor of Applied Science degree and the units CPB342 Education in Context, LEB335 Human Development and Education, LEB336 Psychology of Learning and Teaching, LAB341 Language Technology and Education.

		Credit Points	Contact Hrs/Wk
Year 3, Semester 2			
CUB371	Secondary Professional Practice 1: Classroom Management	12	
CUB372	Secondary Professional Practice 2: Curriculum		
'	Decision Making	12	
	Curriculum Studies 1X	12	3
	Curriculum Studies 1Y	12	3
Year 4, Semester 1			
CPB343	Understanding Educational Practices	12	3
CUB373	Secondary Professional Practice 3: The Inclusive Curriculum	12	
	Curriculum Studies 2X	12	3
	Curriculum Studies 2Y	12	3
Year 4, Semester 2			
	Education Studies Elective	12	3
	Education Studies Elective	12	3
CUB374	Secondary Professional Practice 4: The Beginning Teacher	12	
	Curriculum Studies Elective	12	3

■ Bachelor of Applied Science/Bachelor of Education (Science/Secondary Education) (IF71)

Locations: Gardens Point campus and Kelvin Grove campus

Course Duration: 4 years full-time

Total Credit Points: 432

Standard Credit Points/Full-Time Semester: 54 (average)

Course Coordinators:
Science: Dr Don Field
Education: Mr John Whitta

Full-Time Course Structure

The order of Education Studies units may vary from that shown in semesters 6, 7 and 8 in years prior to 1998. All students are required to attend academic advising sessions to plan their progression through the course and to obtain the approval of an academic adviser prior to any subsequent change of enrolment.

Year 1, Semesters 1 and 2; Year 2, Semesters 1 and 2; Year 3, Semester 1
Completion of 240 credit points in units offered by the Faculty of Science meeting all the requirements for a major as specified for the SC30 program and an approved range of units suitable for general science and the units CPB342 Education in Context, LEB335 Human Development and Education, LEB336 Psychology of Learning and Teaching, LAB341 Language Technology and Education.

		Credit Points	Contact Hrs/Wk
Year 3, Semester 2			
CUB371	Secondary Professional Practice 1: Classroom Management	12	
CUB372	Secondary Professional Practice 2: Curriculum		
	Decision Making	12	
	Curriculum Studies 1X	12	3
	Curriculum Studies 1Y	12	3
Year 4, Semester 1			
CPB343	Understanding Educational Practices	12	3
CUB373	Secondary Professional Practice 3: The Inclusive Curriculum	12	
	Curriculum Studies 2X	12	3
	Curriculum Studies 2Y	12	3
Year 4, Semester 2			
	Education Studies Elective	12	3
	Education Studies Elective	12	3
CUB374	Secondary Professional Practice 4: The Beginning Teacher	12	
	Curriculum Studies Elective	12	3

■ Bachelor of Applied Science (Home Economics)/Bachelor of Education (IF74)

Location: Kelvin Grove campus

Course Duration: 4 years full-time

Total Credit Points: 432

Standard Credit Points/Full-Time Semester: 54 (average)

Course Coordinators:
Home Economics: Ms Melinda Service
Education: Mr John Whitta

Full-Time Course Structure

The order of Education Studies units may vary from that shown in semesters 6, 7 and 8 in years prior to 1998. All students are required to attend academic advising sessions to plan their progression through the course and to obtain the approval of an academic adviser prior to any subsequent change of enrolment.

Year 1, Semesters 1 and 2; Year 2, Semesters 1 and 2; Year 3, Semester 1
Completion of 240 credit points in units offered by the School of Public Health, Faculty of Health as approved. Students will undertake 192 credit points in units which are in accordance with requirements specified for the PU49 program and 48 credit points in approved studies in the second teaching area of Health.

Four education units are also undertaken. These are: CPB342 Education in Context, LEB335 Human Development and Education, LEB336 Psychology of Learning and Teaching, LAB341 Language Technology and Education.

		Credit Points	Contact Hrs/Wk
Year 3, Semester 2			
CUB371	Secondary Professional Practice 1: Classroom Management	12	
CUB372	Secondary Professional Practice 2: Curriculum		
	Decision Making	12	
	Curriculum Studies 1X	12	3
	Curriculum Studies 1Y	12	3

Year 4, Semester 1

CPB343	Understanding Educational Practices	12	3
CUB373	Secondary Professional Practice 3: The Inclusive Curriculum	12	
	Curriculum Studies 2X	12	3
	Curriculum Studies 2Y	12	3

Year 4, Semester 2

	Education Studies Elective	12	3
	Education Studies Elective	12	3
CUB374	Secondary Professional Practice 4: The Beginning Teacher	12	
	Curriculum Studies Elective	12	3

■ Bachelor of Applied Science (Surveying)/Bachelor of Information Technology (IF52)

See course requirements and notes relating to undergraduate courses in the Faculty of Built Environment and Engineering, and the Faculty of Information Technology sections.

Course Discontinued: No further intakes. This course has been replaced by the Bachelor of Surveying/Bachelor of Information Technology (IF54). Years 4 and 5 are offered to continuing students only.

Location: Gardens Point campus

Course Duration: 4.5 years full-time

Total Credit Points: 468

Staudard Credit Points/Full-Time Semester: 52 (average)

Course Coordinators:
Surveying: Associate Professor Brian Hannigan
Information Technology: Mr Michael Middleton

Professional Recognition

This course has been accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society. Graduates of the course are eligible to apply for registration as a Surveyor by the Surveyors Board of Queensland. Further experience and assessment is required for licensing.

Special Course Requirements

Students must obtain at least 90 days of industrial experience/practice, either in a surveying or computing environment approved by the Course Coordinator.

Students must, not later than the fourth week of semester immediately following each period of industrial experience/practice, submit to the Course Coordinator a report or diary in the required format, describing the work carried out during the period of experience/ practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the School Office, or the Faculty Office, Faculty Industrial Experience Officer in Room 1006, ITE Building, Gardens Point campus. Should employment exceed the minimum required, it is strongly recommended that these details also be recorded in the report or diaries and certified by the employer as a record of experience which may be used when seeking registration or licensing by the Surveyors Board.

Students should not formally enrol in industrial experience/practice.

Course Structure (continuing students only)

		Credit Points	Contact Hrs/Wk
Year 4, Semester 1			
MAB795	Survey Mathematics 3	6	3
PSB315	Land Administration 1	6	3
PSB329	Land Surveying 5	8	3
PSB333	Map Projections	6	3
PSB335	Photogrammetry 2	8	3
PSB346	Spheroidal Computations	6	3
	Elective (Surveying)	8	
Year 4, Semester 2			
IFB880/1	Project	12	3
ITB331	Information Management 2	12	3
ITB341	Information Management 3	12	3
PSB330	Land Surveying 6	8	3
PSB336	Photogrammetry 3	8	3
SVB688	Professional Practice A	4	2
Year 5, Semester 1			
IFB880/2	Project	12	3
ITB330	Information Issues & Values	12	3
PSB309	Cartography 4	8	3
PSB344	Spatial Information Science 3	8	3
	Elective (Business)	12	3

Elective Units

General elective units may be chosen from any unit in a QUT degree course subject to prerequisites and approval. The offering of elective units in any semester depends on sufficient minimum enrolments in the unit and the availability of staff.

Recommended Business elective units are:

		Credit Points	Contact Hrs/Wk
First Semester			
BSB110	Accountancy	12	3
BSB113	Economics	12	3
BSB115	Management, People & Organisations	12	3
BSB116	Marketing & International Business	12	3
MGB207	Managing Human Resources	12	3
MJB118	Fundamentals of Photography	12	3
MJB200	Video Drama Production	12	3
Second Semester			
BSB114	Government, Business & Society	12	3
BSB115	Management, People & Organisations	12	3
BSB116	Marketing & International Business	12	3
COB213	Strategic Speech Communication	12	3
COB325	Public Relations Theory & Practice	12	3
ESB102	Economics 2	12	3
MGB207	Managing Human Resources	12	3

■ Bachelor of Arts/Bachelor of Education (IF70)*
■ Bachelor of Arts (Dance)/Bachelor of Education (IF75)
■ Bachelor of Arts (Drama)/Bachelor of Education (IF76)
■ Bachelor of Arts (Music)/Bachelor of Education (IF77)
■ Bachelor of Arts (Visual Arts)/Bachelor of Education (IF78)

* Students who wish to undertake studies in Film and Media Studies apply for IF70 Bachelor of Arts (Humanities)/Bachelor of Education. Places are available subject to quota.

Locations: Carseldine campus and Kelvin Grove campus

Course Duration: 4 years full-time

Total Credit Points: 432

Standard Credit Points/Full-Time Semester: 54 (average)

Course Coordinators:
Academy of the Arts (Dance, Drama, Music, Visual Arts): Ms Kristen Bell
Humanities: Dr Joe Grixti; Film & Media Studies: Dr Graham Bruce
Education: Mr John Whitta

Full-Time Course Structure
The order of Education Studies units may vary from that shown in semesters 6, 7 and 8 in years prior to 1998. All students are required to attend academic advising sessions to plan their progression through the course and to obtain the approval of an academic adviser prior to any change of enrolment.

HUMANITIES AND FILM AND MEDIA* MAJORS

* Students selecting the Bachelor of Arts (Humanities)/Bachelor of Education (IF70) who wish to undertake their major in Film and Media Studies should note that there is a quota on this teaching area and places will be limited.

Year 1, Semester 1
Students will complete 240 credit points in units offered by the Faculty of Arts.

Year 1, Semesters 1 and 2; Year 2, Semesters 1 and 2; Year 3, Semester 1
These units will include the 48 credit points Faculty of Arts foundation program and an approved Arts major of at least 96 credit points. Students will also undertake approved studies of at least 48 credit points in a second teaching area from units on offer in the Faculty of Arts, and the Education units CPB342 Education in Context, LEB335 Human Development and Education, LEB336 Psychology of Learning and Teaching, LAB341 Language Technology and Education.

		Credit Points	Contact Hrs/Wk
Year 3, Semester 2			
CUB371	Secondary Professional Practice 1: Classroom Management	12	
CUB372	Secondary Professional Practice 2: Curriculum Decision Making	12	
	Curriculum Studies 1X	12	3
	Curriculum Studies 1Y	12	3
Year 4, Semester 1			
CPB343	Understanding Educational Practices	12	3
CUB373	Secondary Professional Practice 3: The Inclusive Curriculum	12	
	Curriculum Studies 2X	12	3
	Curriculum Studies 2Y	12	3
Year 4, Semester 2			
	Education Studies Elective	12	3
	Education Studies Elective	12	3
CUB374	Secondary Professional Practice 4: The Beginning Teacher	12	
	Curriculum Studies Elective	12	3

ACADEMY OF THE ARTS MAJORS

Year 1, Semesters 1 and 2; Year 2, Semesters 1 and 2; Year 3, Semester 1
Students will complete 240 credit points in units offered by the Faculty of Arts.

These units will include the 48 credit points Faculty of Arts foundation program and an approved arts major of at least 144 credit points. They will also undertake approved studies of at least 48 credit points in a second teaching area from units on offer in the Faculty of Arts, with the exception of Music, and the Education units CPB342 Education in Context, LEB335 Human Development and Education, LEB336 Psychology of Learning and Teaching, LAB341 Language Technology and Education

		Credit Points	Contact Hrs/Wk
Year 3, Semester 2			
CUB371	Secondary Professional Practice 1: Classroom Management	12	
CUB372	Secondary Professional Practice 2: Curriculum		
	Decision Making	12	
	Curriculum Studies 1X	12	3
	Curriculum Studies 1Y	12	3
Year 4, Semester 1			
CPB343	Understanding Educational Practices	12	3
CUB373	Secondary Professional Practice 3: The Inclusive Curriculum	12	
	Curriculum Studies 2X	12	3
	Curriculum Studies 2Y	12	3
Year 4, Semester 2			
	Education Studies Elective	12	3
	Education Studies Elective	12	3
CUB374	Secondary Professional Practice 4: The Beginning Teacher	12	
	Curriculum Studies Elective	12	3

■ Bachelor of Arts/Bachelor of Laws (IF36)

Location: Carseldine and Gardens Point campuses

Course Duration: 5 years full-time

Total Credit Points: 528

Standard Credit Points/Full-Time Semester: 52.8

Course Coordinators:
Arts: Dr Joe Grixti
Law: Professor Malcolm Cope

Professional Recognition

For information on the academic requirements of the Solicitors' or Barristers' Board of Queensland please refer to the section on professional recognition in the Bachelor of Laws course entry in the Faculty of Law section of this Handbook.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Years 1 and 2			

Refer to the course structure for Years 1 and 2 in the Bachelor of Arts (HU20) entry in the Faculty of Arts section.

Year 3, Semester 1			
LWB130	Introduction to Study in Law (2 weeks)		
LWB131/1	Law in Context	12	3
LWB132/1	Contracts	12	3
LWB133/1	Torts	12	4
LWB134	Research & Legal Reasoning	12	3

Year 3, Semester 2

LWB131/2	Law in Context	12	3
LWB132/2	Contracts	12	3
LWB133/2	Torts	12	4
LWB135	Legislation	12	3

Year 4, Semester 1

LWB231	Introduction to Public Law	12	3
LWB232/1	Criminal Law & Procedure	12	3
LWB233/1	Property 1	12	3
LWB234/1	Equity & Trusts	12	3
LWB332	Property 2	12	3

Year 4, Semester 2

LWB232/2	Criminal Law & Procedure	12	3
LWB233/2	Property 1	12	3
LWB234/2	Equity & Trusts	12	3
LWB235	Australian Federal Constitutional Law	12	3
LWB334	Corporate Law	12	3

Year 5, Semester 1

LWB331	Administrative Law	12	3
LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units[3]	24	

Year 5, Semester 2

LWB333	Theories of Law	12	3
LWB433	Professional Responsibility	12	3
LWB434	Advanced Research & Legal Reasoning	12	3
	Elective Units[3]	24	

Elective Units

For availability of Law elective units, refer to relevant section in the Bachelor of Laws course entry in the Faculty of Law section. The offering of elective units in any semester is dependent upon sufficient minimum enrolments in the unit and the availability of staff. The selection of all elective units is subject to the approval of the Associate Dean of the Faculty of Law.

■ Bachelor of Business/Bachelor of Education (IF72)

Location: Gardens Point campus, Carseldine campus and Kelvin Grove campus

Course Duration: 4 years full-time

Total Credit Points: 432

Standard Credit Points/Full-time Semester: 54 (average)

Course Coordinators:
Business: Dr Carol Dickensen
Education: Mr John Whitta

Full-time Course Structure

The order of Education Studies units may vary from that shown in semesters 6, 7 and 8 in years prior to 1998.

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[3] *A student is required to complete 48 credit points of elective units. A student may undertake, as electives, units offered by other Faculties or Schools but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the Faculty or School responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units selected form a coherent program.*

Students will complete 240 credit points in units offered by the Faculty of Business. These units will include the 96 credit points Business Faculty core and 72 credit points (6 units) in each of two major areas drawn from Accountancy, Economics or Communication as specified in the Bachelor of Business rules.

They will also complete the education units CPB342 Education in Context, LEB335 Human Development and Education, LEB336 Psychology of Learning and Teaching, LAB341 Language Technology and Education.

		Credit Points	Contact Hrs/Wk
Year 3, Semester 2			
CUB371	Secondary Professional Practice 1: Classroom Mangement	12	
CUB372	Secondary Professional Practice 2: Curriculum Decision Making	12	
	Curriculum Studies 1X	12	3
	Curriculum Studies 1Y	12	3
Year 4, Semester 1			
CPB343	Understanding Educational Practices	12	3
CUB373	Secondary Professional Practice 3: The Inclusive Curriculum	12	
	Curriculum Studies 2X	12	3
	Curriculum Studies 2Y	12	3
Year 4, Semester 2			
	Education Studies Elective	12	3
	Education Studies Elective	12	3
CUB374	Secondary Professional Practice 4: The Beginning Teacher	12	
	Curriculum Studies Elective	12	3

■ Bachelor of Business/Bachelor of Laws (IF40)

In the fields of Banking & Finance, Economics, Human Resource Management, Industrial Relations, International Business, Journalism, Management, Marketing and Public Sector Management.

Note: This course is not accepting new students. New students will undertake IF41.

Location: Gardens Point Campus (study on other campuses may be required, depending on major selected)

Course Duration: 5 years full-time

Total Credit Points: 528

Standard Credit Points/Full-time Semester: 60

Course Coordinators:
Business: To be determined
Law: Professor Malcolm Cope

Professional Recognition

For information on the academic requirements of the Solicitors' or Barristers' Board of Queensland, please refer to the section on professional recognition in the Bachelor of Laws course entry in the Faculty of Law section of this Handbook. For information on the academic requirements of the accrediting bodies recognising study in the Bachelor of Business component, refer to the section on professional recognition in the relevant majors within the Bachelor of Business course entry.

Course Structure

The structure given below represents the Law component of the degree only. Students supplement this program with one major, undertaken in the Faculty of Business, selected from the following: Banking and Finance; Economics; Human Resource Management; Industrial Relations; International Business; Management; Marketing; or Public Sector Management. For information on the units within each of the majors, refer to the relevant section in the course entry.

Course Structure		Credit Points	Contact Hrs/Wk
Year 2, Semester 1			
	Three units from selected Business Major	36	
LWB132/1	Contracts	12	3
Year 2, Semester 2			
	Three units from selected Business Major	36	
LWB132/2	Contracts	12	3
Year 3, Semester 1			
	Two units from selected Business Major	24	
LWB133/1	Torts	12	4
LWB232/1	Criminal Law & Procedure	12	3
Year 3, Semester 2			
	Two units from selected Business Major	24	
LWB133/2	Torts	12	4
LWB232/2	Criminal Law & Procedure	12	3
Year 4, Semester 1			
LWB231	Introduction to Public Law	12	3
LWB233/1	Property 1	12	3
LWB234/1	Equity & Trusts	12	3
LWB332	Property 2	12	3
LWB331	Administrative Law	12	3
Year 4, Semester 2			
LWB235	Australian Federal Constitutional Law	12	3
LWB233/2	Property 1	12	3
LWB234/2	Equity & Trusts	12	3
LWB334	Corporate Law	12	3
LWB333	Theories of Law	12	3
Year 5, Semester 1			
LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units[4]	24	
Year 5, Semester 2			
LWB433	Professional Responsibility	12	3
LWB434	Advanced Research and Legal Reasoning	12	3
	Elective Units[4]	24	

Elective Units

For availability of Law elective units, refer to relevant section in the Bachelor of Laws course entry in the Faculty of Law section. The offering of elective units in any semester

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[4] *A student is required to complete 48 credit points of elective units. A student may undertake as electives units offered by other Faculties or Schools provided prerequisites are satisfied but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the Faculty or School responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units form a coherent program of study.*

However, students who undertake a major in Banking and Finance will need to use 12 credit points of these electives in order to satisfy the requirements for that major and students who undertake a major in Journalism will need to use the 48 credit points of electives in order to satisfy the requirements for that major.

In selecting their electives students should consult the Course Coordinator of the relevant major for approval.

depends on sufficient minimum enrolments in the unit and the availability of staff. The selection of all elective units is subject to the approval of the Associate Dean of the Faculty of Law.

■ Bachelor of Business/Bachelor of Laws (IF41)

Available Majors: Banking & Finance, Communication, Economics, Human Resource Management, International Business, Management, Marketing.

Location: Gardens Point campus (study on other campuses may be required ,depending on major selected)

Course Duration: 5 years full-time

Total Credit Points: 528

Standard Credit Points/Full-time Semester: 60

Course Coordinators: To be determined

Professional Recognition

For information on the academic requirements of the Solicitors' or Barristers' Board of Queensland, please refer to the section on professional recognition in the Bachelor of Laws course entry in the Faculty of Law section of this Handbook. For information on the academic requirements of the accrediting bodies recognising study in the Bachelor of Business component, refer to the section on professional recognition in the relevant majors within the Bachelor of Business course entry.

Course Structure

Students supplement the law component of this program with seven Faculty core units and one major consisting of six units and undertaken in the Faculty of Business, selected from the following: Banking and Finance; Communication; Economics; Human Resource Management; International Business; Management; or Marketing as well as three extended major/specialisation units. For information on the units within each of the majors, refer to the relevant section in the Bachelor of Business (BS56) course entry.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BSB110	Accounting	12	3
BSB116	Marketing and International Business	12	3
BSB115	Management, People & Organisations	12	3
LWB130	Introduction to Study in Law (2 weeks)		
LWB131/1	Law in Context	12	3
LWB134	Research and Legal Reasoning	12	3
Year 1, Semester 2			
BSB117	Professional Communication & Negotiation	12	3
BSB112	Business Technology & Information	12	3
BSB113	Economics	12	3
LWB131/2	Law in Context	12	3
LWB135	Legislation	12	3
Year 2, Semester 1			
BSB114	Government, Business & Society	12	3
	Two units from selected Business Major*	24	
LWB132/1	Contracts	12	3
Year 2, Semester 2			
	Three units from selected Business Major*	36	
LWB132/2	Contracts	12	2

Year 3, Semester 1

	One unit from selected Business Major*	24	
One approved specialisation/extended major unit			
LWB133/1	Torts	12	4
LWB232/1	Criminal Law & Procedure	12	3

Year 3, Semester 2

	Two approved specialisation/extended major units	24	
LWB133/2	Torts	12	4
LWB232/2	Criminal Law & Procedure	12	3

Year 4, Semester 1

LWB231	Introduction to Public Law	12	3
LWB233/1	Property 1	12	3
LWB234/1	Equity & Trusts	12	3
LWB332	Property 2	12	3
LWB331	Administrative Law	12	3

Year 4, Semester 2

LWB235	Australian Federal Constitutional Law	12	3
LWB233/2	Property 1	12	3
LWB234/2	Equity & Trusts	12	3
LWB334	Corporate Law	12	3
LWB333	Theories of Law	12	3

Year 5, Semester 1

LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units[5]	24	

Year 5, Semester 2

LWB433	Professional Responsibility	12	3
LWB434	Advanced Research and Legal Reasoning	12	3
	Elective Units[5]	24	

* See Major core units listed at the commencement of the BS56 and follow the semester pattern set for the BS56 in the major of your choosing.

Elective units

In order to gain professional accreditation for their Bachelor of Business course, students may need to fully complete their extended major or specialised field of study by availing themselves of the opportunity to complete the additional Business units required as elective units as a component of the Bachelor of Laws program. In order to complete the requirements for the Bachelor of Laws program a student is required to complete 48 credit points of elective units. A student may undertake elective units offered by other Faculties but limitations are imposed on the number of introductory units which may be undertaken as electives. Before undertaking such units or courses a student must demonstrate that the units selected form a coherent program and must obtain the approval of the Course Coordinator.

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[5] *A student is required to complete 48 credit points of elective units. A student may undertake as electives units offered by other Faculties or Schools provided prerequisites are satisfied but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the Faculty or School responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units form a coherent program of study.*

However, students who undertake a major in Banking and Finance will need to use 12 credit points of these electives in order to satisfy the requirements for that major and students who undertake a major in Journalism will need to use the 48 credit points of electives in order to satisfy the requirements for that major.

In selecting their electives students should consult the Course Coordinator of the relevant major for approval.

■ Bachelor of Business (Accountancy)/Bachelor of Laws (IF37)

Course Duration: 5 years full-time

Total Credit Points: 544

Standard Credit Points: Semester 1–5: 60
Semesters 6–10: 48

Course Coordinators:
Business: To be advised
Law: Professor Malcolm Cope

Professional Recognition

The combined Accountancy/Law degree satisfies the academic requirements of the Institute of Chartered Accountants in Australia and the Australian Society of Certified Practising Accountants. For membership purposes, the ASCPA will not accept a grade of 3 in core accounting units unless a grade of 4 or better is achieved in a subsequent core unit. For information on the academic requirements of the Solicitors' or Barristers' Board of Queensland please refer to the section on professional recognition in the Bachelor of Laws course entry in the Faculty of Law section of the Handbook.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BSB110	Accounting	12	4
BSB113	Economics 1	12	3
LWB130	Introduction to Study in Law (2 weeks)		
LWB131/1	Law in Context	12	3
LWB134	Research and Legal Reasoning	12	3
BSB114	Government, Business & Society	12	3
Year 1, Semester 2			
AYB121	Financial Accounting	12	4
EFB101	Data Analysis for Business	12	3
BSB112	Business Technology & Information	12	3
LWB131/2	Law in Context	12	3
LWB135	Legislation	12	3
Year 2, Semester 1			
AYB221	Computerised Accounting Systems	12	4
AYB220	Company Accounting	12	4
EFB102	Economics 2	12	3
LWB132/1	Contracts	12	3
LWB133/1	Torts	12	4
Year 2, Semester 2			
BSB115	Management, People & Organisations	12	3
EFB210	Finance I	12	4
AYB225	Management Accounting I	12	4
LWB132/2	Contracts	12	3
LWB133/2	Torts	12	4
Year 3, Semester 1			
AYB301	Auditing	12	3
BSB116	Marketing & International Business	12	3
BSB117	Professional Communication & Negotiation	12	3
LWB231	Introduction to Public Law	12	3
LWB232/1	Criminal Law & Procedure	12	3
Year 3, Semester 2			
AYB311	Financial Accounting Theory		
	OR	12	4
AYB321	Management Accounting Theory	12	4

LWB232/2	Criminal Law & Procedure	12	3
LWB235	Australian Federal Constitutional Law	12	3
LWB366	Law of Commercial Entities	8	2

Year 4, Semester 1
LWB233/1	Property 1	12	3
LWB234/1	Equity & Trusts	12	3
LWB331	Administrative Law	12	3
LWB332	Property 2	12	3

Year 4, Semester 2
LWB233/2	Property 1	12	3
LWB234/2	Equity & Trusts	12	3
LWB333	Theories of Law	12	3
LWB334	Corporate Law	12	3

Year 5, Semester 1
LWB364	Introduction to Taxation Law	12	3
LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units[6]	16	

Year 5, Semester 2
LWB359	Advanced Taxation Law	12	2
LWB433	Professional Responsibility	12	3
LWB434	Advanced Research & Legal Reasoning	12	3
	Elective Units[6]	16	

Elective Units

For availability of Law elective units, refer to relevant section in the Bachelor of Laws course entry in the Faculty of Law section. The offering of elective units in any semester is dependent upon sufficient minimum enrolments in the unit and the availability of staff. The selection of all elective units is subject to the approval of the Dean of the Faculty of Law.

■ Bachelor of Information Technology/Bachelor of Laws (IF38)

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 528

Standard Credit Points/Full-Time Semester: 52.8

Course Coordinators:
Information Technology: Mr Bob Smyth
Law: Professor Malcolm Cope

Professional Recognition
This course will be accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society. For information on the academic requirements of the Solicitors' or Barristers' Board of Queensland please refer to the section on professional recognition in the Bachelor of Laws course entry in the Faculty of Law section of the Handbook.

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[6] *A student is required to complete 32 credit points of elective units. A student may undertake, as electives, units offered by other Faculties or Schools but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the Faculty or School responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units selected form a coherent program.*

Course Structure		Credit Points	Contact Hrs/Wk

Year 1, Semester 1

BSB118	Business Communication & Application Systems	12	3
ITB101	Laboratory 1 (Computing Environments)	12	3
ITB210	Formal Representation	12	3
ITB410	Software Development 1	12	3

Year 1, Semester 2

ITB102	Laboratory 2 (Computer Applications)	12	3
ITB310	Information Management 1	12	3
ITB411	Software Development 2	12	3
ITB412	Technology of Information Systems	12	3

Year 2, Semester 1

ITB220	Database Design	12	3
ITB221	Laboratory 3 (Commercial Programming)	12	3
ITB520	Data Communications	12	3
LWB130	Introduction to Study in Law (2 weeks)		
LWB131/1	Law in Context	12	3
LWB134	Research and Legal Reasoning	12	3

Year 2, Semester 2

ITB223	Laboratory 4 (4GL Programming)	12	3
ITB233	File Structures	12	3
LWB131/2	Law in Context	12	3
LWB135	Legislation	12	3

Year 3, Semester 1

ITB222	Systems Analysis & Design 1	12	3
ITB230	Project	12	3
LWB132/1	Contracts	12	3
LWB133/1	Torts	12	4
LWB232/1	Criminal Law & Procedure	12	3

Year 3, Semester 2

ITB241	Information Systems Management	12	3
LWB132/2	Contracts	12	3
LWB133/2	Torts	12	4
LWB232/2	Criminal Law & Procedure	12	3

Year 4, Semester 1

LWB231	Introduction to Public Law	12	3
LWB233/1	Property 1	12	3
LWB234/1	Equity & Trusts	12	3
LWB332	Property 2	12	3

Year 4, Semester 2

LWB233/2	Property 1		
LWB234/2	Equity & Trusts	12	3
LWB235	Australian Federal Constitutional Law	12	3
LWB334	Corporate Law	12	3

Year 5, Semester 1

LWB331	Administrative Law	12	3
LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units[7]	24	

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[7] *A student is required to complete 48 credit points of elective units. A student may undertake, as electives, units offered by other Faculties or Schools, provided prerequisites are satisfied, but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the Faculty or School responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units form a coherent program of study.*

Year 5, Semester 2

LWB333	Theories of Law	12	3
LWB433	Professional Responsibility	12	3
LWB434	Advanced Research & Legal Reasoning	12	3
	Elective Units[8]	24	

Elective Units

For availability of Law elective units, refer to relevant section in the Bachelor of Laws course entry in the Faculty of Law section. The offering of elective units in any semester is dependent upon sufficient minimum enrolments in the unit and the availability of staff. The selection of all elective units is subject to the approval of the Associate Dean of the Faculty of Law.

■ Bachelor of Information Technology/Bachelor of Laws (IF33)

Course Discontinued: No further intakes. This course has been replaced by Bachelor of Information Technology/Bachelor of Laws (IF38).

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 528

Standard Credit Points/Full-Time Semester: 56.1 (average)

Course Coordinators:
Information Technology: Mr Bob Smyth
Law: Professor Malcolm Cope

Course Structure (continuing students only)		Credit Points	Contact Hrs/Wk
Year 5, Semester 1			
LWB431	Civil Procedure	12	3
LWB432	Evidence	12	3
	Elective Units[8]		
Year 5, Semester 2			
LWB333	Theories of Law	12	3
LWB433	Professional Responsibility	12	3
LWB434	Advanced Research & Legal Reasoning	12	3
	Elective Units[8]		

Elective Units

For availability of Law elective units, refer to relevant section in the Bachelor of Laws course entry in the Faculty of Law section. The offering of elective units in any semester is dependent upon sufficient minimum enrolments in the unit and the availability of staff. The selection of all elective units is subject to the approval of the Associate Dean of the Faculty of Law.

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[8] *A student is required to complete 48 credit points of elective units. A student may undertake, as electives, units offered by other Faculties or Schools, provided prerequisites are satisfied, but limitations are imposed on the number of introductory units which may be undertaken. Before undertaking such units, a student must obtain the approval of the Faculty of Law and the Faculty or School responsible for the unit or course. Approval by the Faculty of Law will require a student to demonstrate that the units form a coherent program of study.*

■ Bachelor of Engineering (Civil)/Bachelor of Applied Science (Mathematics) (IF42)

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 544

Standard Credit Points/Full-Time Semester: average 54.4

Course Coordinators:
Civil Engineering: Professor Rod Troutbeck
Mathematics: Associate Professor Helen MacGillivray

Professional Recognition:

This degree meets the requirements for membership of the Institution of Engineers, Australia, and the coursework requirements for accredited graduate membership of the Australian Mathematical Society (GAustMS).

Special Course Requirements:

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

Candidates must, not later than the fourth week of semester immediately following each period of industrial employment/practice, submit to the Course Coordinator (Civil) (through the Faculty Office), a report in the required format, describing the work carried out during the period of industrial employment/practice and including an industrial Experience Record Form signed by the employer. Industrial Record Forms are available from the Faculty Industrial Experience Officer in Room ITE 1006, ITE Building, Gardens Point campus.

Students should not formally enrol in industrial experience/practice.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CEB184	Engineering Mechanics 1	8	3
MEB133	Materials 1	(8)	(3)
	OR		
MEB181	Engineering Communication	8	3
MAB301	Calculus and Analysis A	12	4
MAB303	Algebra and Analysis B	12	4
MAB347	Statistics 1A	12	4
PHB134	Engineering Physics 1B	8	3
Year 1, Semester 2			
CEB185	Engineering Mechanics 2	8	3
	Elective*	8	3
MEB181	Engineering Communication	(8)	(3)
	OR		
MEB133	Materials 1	8	3
MAB304	Calculus and Vector Algebra	12	4
MAB321	Computational Mathematics 1	12	4
MAB348	Statistics 1B	12	4

* Choice of elective to be made on advice of Course Coordinators.

Year 2, Semester 1			
CEB221	Engineering Investigation Analysis & Reporting	8	4
CEB240	Soil Mechanics 1	8	3.5
CEB254	Structural Engineering 1	8	3.5
CEB260	Fluid Mechanics	8	3.5

| CEB293 | Civil Engineering Materials | 8 | 4 |
| MAB601 | Multivariable Calculus | 12 | 4 |

Year 2, Semester 2
CEB201	Steel Structures	8	3.5
CEB202	Concrete Structures 1	8	3.5
CEB242	Soil Mechanics 2A	8	3
CEB261	Hydraulic Engineering 1	8	3.5
MAB612	Differential Equations	12	4
MAB618	Computational Mathematics 2	12	4

Year 3, Semester 1
CEB306	Concrete Structures 2	8	3
CEB309	Construction Practice	8	3
CEB362	Hydraulic Engineering 2	8	3
CEB370	Public Health Engineering	8	3
MAB647	Statistics 2A	12	4
MAB630	Linear Algebra & its Applications	12	4

Year 3, Semester 2
CEB211	Highway Engineering	8	4
CEB255	Structural Engineering 2	8	3.5
CEB305	Construction Planning & Economics	8	3
CEB342	Geotechnical Eng 1	8	3
MAB637	Operations Research 1A	12	4
MAB648	Statistics 2B	12	4

Year 4, Semester 1
CEB304/1	Civil Engineering Design 1	8	3.5
CEB406	Structural Applications	8	3
CEB403	Professional Practice	8	3
	Civil Elective	8	3
	Civil Elective	8	3
	Maths Elective	12	4

Year 4, Semester 2
CEB304/2	Civil Engineering Design 1	8	3.5
CEB315	Traffic Engineering	8	3
CEB357	Structural Engineering 3	8	3
CEB371	Water & Wastewater Systems	8	3
CEB393	Engineering Investigation & Reporting 1	8	3
	Maths Elective	12	4

Year 5, Semester 1
CEB405/1	Civil Engineering Design 2	8	3
CEB491/1	Project	8	3
	Civil Elective	8	3
	Civil Elective	8	3
	Maths Elective	12	4

Year 5 Semester 2
CEB401	Design Project	8	3
CEB405/2	Civil Engineering Design 2	8	3
CEB491/2	Project	8	3
	Civil Elective	8	3
	Maths Elective	12	4
	Maths Elective	12	4

An optional elective could be added if desired with the permission of the Course Coordinators. The fifth Mathematics elective in Year 5 above may be done in semester 1 if desired.

Note: Limited deviations from the above course structure may be possible with the permission of both Course Coordinators. This is more likely to apply in the later than the earlier years of the course.

Civil Engineering Elective Units
'A' Electives
CEB501	Civil Engineering Practice 1	8
CEB505	Project Management & Administration	8
CEB512	Transport Engineering 1	8
CEB520	Finite Element Methods	8
CEB541	Geotechnical Engineering 2	8
CEB561	Coastal Engineering	8
CEB570	Waste Management	8

'B' Electives
CEB502	Project Control	8
CEB503	Advanced Construction Methods	8
CEB506	Civil Engineering Practice 2	8
CEB511	Transport Engineering 2	8
CEB531	Masonry Design	8
CEB542	Geotechnical Engineering 3	8
CEB543	Environmental Geotechnology	8
CEB551	Advanced Structural Design	8
CEB560	Hydraulic Engineering 3	8
CEB575	Environmental Impact Assessment	8

Recommended Maths Electives are given below in three strands. (All units are 12 credit points.)

1. Computational Maths/Mathematical Modelling and Industrial Mathematics
Year 4, Semester 1
MAB911   Computational Mathematics 3A

Year 4, Semester 2
MAB913   Computational Mathematics 3B

Year 5, Semester 1
MAB942   Optimisation Methods
             OR
MAB912   Continuum Modelling

Year 5, Semester 2
MAB973   Partial Differential Equations
             PLUS one of MAB602 Vector Field Theory or MAB632 Mathematical Modelling.

2. Probability and Statistics
Year 4, Semester 1
MAB907   Statistics 3A

Year 4, Semester 2
MAB908   Statistics 3B

Year 5, Semester 1
SCB510   Introduction to Quality Management

Year 5, Semester 2
MAB929   Time Series & Statistical Forecasting
             OR
MAB974   Sampling and Survey Techniques
             Remaining Maths Elective: Any MAB unit for which prerequisites are satisfied.

3. Operations Research
Year 4, Semester 1
SCB510   Introduction to Quality Management

Year 4, Semester 2
MAB638   Operations Research IB

Year 5, Semester 1
MAB927   Operations Research 2A

Year 5, Semester 2
MAB928   Operations Research 2B
          Remaining Maths Elective: Any MAB9- - unit for which prerequisites are satisfied.

■ Bachelor of Engineering (Electrical and Computer Engineering)/Bachelor of Applied Science (Mathematics) (IF44)

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 544

Standard Credit Points/Full-Time Semester: 54 (average)

Course Coordinators:
Mathematics: Associate Professor Helen MacGillivray
Engineering: Dr Abdelhak Zoubir

Professional Recognition

This degree meets the requirements for membership of the Institution of Engineers, Australia, the Institution of Radio and Electronics Engineers, and the coursework requirements for accredited graduate membership of the Australian Mathematical Society (GAustMS).

Special Course Requirements

A candidate for the degree of Bachelor of Engineering (Electrical and Computer Engineering)/Bachelor of Applied Science (Mathematics) must obtain at least 60 days of industrial employment/practice in an engineering environment approved by the Course Coordinator.

Candidates must, not later than the fourth week of semester following each period of industrial employment/practice, submit to the Course Coordinator (through the Faculty Office), a report in the required format, describing the work carried out during the period of employment/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Records Forms are available from the Faculty Employment Officer in Room ITE1006.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
EEB101	Circuits & Measurements	8	3
MAB301	Calculus & Analysis A	12	4
MAB303	Algebra & Analysis B	12	4
MAB347	Statistics 1A	12	4
MEB181	Engineering Communication	8	4
PHB134	Engineering Physics 1B	8	3
Year 1, Semester 2			
CSB155	Introduction to Computing	12	4
EEB210	Network Analysis	8	4
EEB270	Digital Design Principles	8	3
MAB304	Calculus & Vector Algebra	12	4
MAB348	Statistics 1B	12	4
PHB234	Engineering Physics 2B	8	3
Year 2, Semester 1			
EEB302	Electrotechnology 1	8	3
EEB310	Network Synthesis	8	4

EEB375	Electronics 1	8	4
MAB321	Computational Mathematics 1	12	4
MAB601	Multivariate Calculus	12	4

Year 2, Semester 2

EEB400	Electrotechnology 2	8	3
EEB475	Microprocessor Systems	8	3
EEB476	Electronics 2	8	4
MAB612	Differential Equations	12	4
MAB618	Computational Mathematics 2	12	4

Year 3, Semester 1

EEB362	Introduction to Telecommunications	8	3
EEB530	Engineering Electromagnetics	8	3
EEB587	Design 1	8	3
MAB630	Linear Algebra & its Applications	12	4
MAB647	Statistics 2A	12	4

Year 3, Semester 2

EEB420	Control Systems 1	8	3
EEB665	Transmission & Propagation	8	3
EEB788	Design 2	8	3
EEB881	Production Technology & Quality	8	3
MAB602	Vector Field Theory	12	4
MAB648	Statistics 2B	12	4

Year 4, Semester 1

EEB380	Engineering Management Skills	8	3
EEB565	Signals & Linear Systems	8	3
EEB682	Engineering Business Skills	8	3
	Computing Elective	12	3
	Electrical Elective Unit 1 (List A)	8	3

Select one of:

MAB907	Statistics 3A	12	4
MAB911	Computational Mathematics 3A	12	4

Year 4, Semester 2

EEB624	Control Systems 2	8	3
EEB820	Engineering Management	8	3
EEB668	Digital Signal Processing	8	3
	Computing Elective	12	3
	Electrical Elective Unit 2 (List B)	8	3

Select one of:

MAB913	Computational Mathematics 3B	12	4
MAB929	Time Series & Statistical Forecasting	12	4

Year 5, Semester 1

EEB889/1	Project	8	4
EEB885	Design 3	8	3
	Mathematics Elective	12	4
	Mathematics Elective	12	4
	Electrical Elective Unit 3 (List C)	8	3
	Electrical Elective Unit 4 (List C)	8	3

Year 5, Semester 2

EEB889/2	Project	16	6
	Mathematics Elective	12	4
	Mathematics Elective	12	4
	Electrical Elective Unit 5 (List D)	8	3
	Electrical Elective Unit 6 (List D)	8	3

ELECTRICAL ELECTIVE LISTS

List A , 'A' Electives

EB532	Power Systems 1	8	3
EEB564	Information Theory Modulation & Noise	8	3
EEB963	Statistical Communications	8	3

List B, 'A' Electives

EEB632	Power Systems 2	8	3
EEB667	Digital Communications	8	3
EEB974	VLSI Circuits & Systems	8	3

List C, 'A' Electives

EEB741	Power Systems Analysis	8	3
EEB752	Power Electronics	8	3
EEB765	Microwave & Antenna Technology	8	3
EEB762	Communications Technology	8	3
EEB763	Modern Signal Processing	8	3
EEB791	Advanced Eng Computing 1	8	3
	OR A fourth year 'A' elective not yet completed		
	OR 'B' elective offered		

List D, 'A' Electives

EEB822	Advanced Control Systems	8	3
EEB842	Power Systems Engineering	8	3
EEB891	Signal Computing & Real Time DSP	8	3
EEB892	Advanced Engineering Computing 2	8	3
EEB869	Signal Filtering and Estimation	8	3
EEB871	Applied Electronics	8	3
	OR A fourth year 'A' elective not yet completed		
	OR 'B' elective offered		

'B' Electives

BNB003	Professional Practice in Asia/Pacific	8	3
EEB910	Photovoltaic Engineering	8	3
EEB923	Industrial Control Systems	8	3
EEB957	High Voltage Equipment	8	3
EEB958	Electrical Energy Utilisation	8	3
EEB959	Power Electronics Applications	8	3
EEB965	Microwave Systems Engineering	8	3
EEB990	Advanced Information Tech Topics	8	3
EEB999	Advanced Engineering Topics	8	3

Computing Science Electives

ITB448	Object Technology	12	3
ITB449	Expert Systems	12	3
ITB461	Foundations of Neurocomputing	12	3
ITB520	Data Communications	12	3
ITB543	Data Security	12	3
ITB548	Introduction to Cryptology	12	3
ITB549	Error Control & Data Compression	12	3

MATHS ELECTIVES are given below in two strands:

Numerical Analysis:
Year 4, Semester 1

MAB911	Computational Mathematics 3A	12	4

Year 4, Semester 2

MAB913	Computational Mathematics 3B	12	4

Year 5, Semester 1 and Semester 2 Electives from

MAB906	Topics in Analysis	12	4
MAB912	Continuum Modelling	12	4
MAB929	Time Series	12	4
MAB942	Optimisation Methods	12	4
MAB973	Partial Differential Equations	12	4
MAB975	Ordinary Differential Equations and Chaos	12	4

Probability and Statistics:
Year 4, Semester 1

MAB907	Statistics 3A	12	4

Year 4, Semester 2

MAB929	Time Series & Statistical Forecasting	12	4

Year 5, Semester 1

MAB970	Probability Theory and Stochastic Processes	12	4

AND one of the following:

MAB637	Operations Research 1A	12	4
MAB906	Topics in Analysis	12	4
MAB911	Computational Mathematics 3A	12	4
SCB510	Introduction to Quality Management	12	4

Year 5, Semester 2

MAB908	Statistics 3B	12	4
MAB978	Statistical Signal Processing & Image Analysis	12	4

Note: Some deviations from the above course structure may be possible with the permission of the Course Coordinator. This is more likely to apply in the later years than the earlier years of the course.

■ Bachelor of Engineering (Electronics)/Bachelor of Information Technology (IF25)

Note: This course has replaced IF23. Continuing students enrolled in IF23 should refer to their course summary sheets or contact the School of Electrical and Electronic Systems Engineering for enrolment details.

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points/Full-Time Semester: 56

Course Coordinators:
Information Technology: Dr Gerry Finn
Engineering: Dr Neil Bergmann

Professional Recognition

This course will be accredited by the Australian Computer Society as meeting the training and experience requirements for admission to the grade of Member of the Society. It is accredited by the Institution of Engineers, Australia, and the Institution of Radio and Electronics Engineers, Australia as meeting the training requirements for admission to graduate membership of these institutions.

Special Course Requirements

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

Candidates must, not later than the fourth week of semester following each period of industrial employment/practice, submit to the Course Coordinator (through the Faculty Office), a report in the required format, describing the work carried out during the period of employment/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Records Forms are available from the Faculty Employment Officer in Room ITE1006.

Students should not formally enrol in industrial experience/practice.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CSB155	Introduction to Computing	12	4
EEB101	Circuits and Measurements	8	3
ITB210	Formal Representation	12	3
MAB103	Introductory Engineering Mathematics[9]	(8)	(3)
MAB187	Engineering Mathematics 1A	8	4
PHB134	Engineering Physics 1B	8	3
MEB181	Engineering Communication	8	4
Year 1, Semester 2			
EEB270	Digital Design Principles	8	3
EEB210	Network Analysis	8	4
ITB102	Laboratory 2 (Computer Applications)	12	3
ITB411	Software Development 2	12	3
MAB188	Engineering Mathematics 1B	8	4
PHB234	Engineering Physics 2B	8	3
Year 2, Semester 1			
EEB375	Electronics 1	8	4
EEB302	Electrotechnology 1	8	3
EEB310	Network Synthesis	8	4
ITB421	Data Structure & Algorithms	12	3
ITB422	Laboratory 3 (ADTs in C/Unix)	12	3
MAB485	Engineering Mathematics 2A	8	3
Year 2, Semester 2			
EEB476	Electronics 2	8	4
EEB400	Electrotechnology 2	8	3
EEB475	Microprocessor Systems	8	3
ITB412	Technology of Information Systems	12	3
ITB424	Software Engineering Principles	12	3
MAB486	Engineering Mathematics 2B	8	3
Year 3, Semester 1			
EEB362	Introduction to Telecommunications	8	3
EEB530	Engineering Electromagnetics	8	3
EEB587	Design 1	8	3
ITB420	Computer Architecture	12	3
ITB423	Laboratory 4 (Software Development)	12	3
MAB893	Engineering Mathematics 3	8	3
Year 3, Semester 2			
EEB420	Control Systems 1	8	3
EEB665	Transmission & Propagation	8	3
EEB788	Design 2	8	3
EEB881	Production Technology and Quality	8	3
ITB430	Concurrent Systems	12	3
ITB431	Programming Language Paradigms	12	3
Year 4, Semester 1			
EEB565	Signals and Linear Systems	8	3
EEB380	Engineering Management Skills	8	3
EEB682	Engineering Business Skills	8	3
ITB440	Language & Language Processing	12	3
	Computing Elective	12	3
	Electrical Elective Unit 1 (List A)	8	3
Year 4, Semester 2			
EEB624	Control Systems 2	8	3
EEB668	Digital Signal Processing	8	3

[9] *MAB103 Introductory Mathematics is to be taken only by those students not obtaining an HA or better in Maths B and a SA or better in Maths C or its equivalent.*

EEB820	Engineering Management	8	3
ITB450	Advanced Computer Architecture	12	3
	Computing Elective	12	3
	Electrical Elective Unit 2 (List B)	8	3

Year 5, Semester 1

CSB985/1	Computing Project	8	
	OR		
EEB889/1	Project	8	4
EEB885	Design 3	8	3
	Computing Elective	12	3
	Computing Elective	12	3
	Electrical Elective Unit 3 (List C)	8	3
	Electrical Elective Unit 4 (List C)	8	3

Year 5, Semester 2

CSB985/2	Computing Project	16	
	OR		
EEB889/2	Project	16	6
	Computing Elective	12	3
	Computing Elective	12	3
	Electrical Elective Unit 5 (List D)	8	3
	Electrical Elective Unit 6 (List D)	8	3

ELECTRICAL ELECTIVE LISTS

List A, 'A' Electives

EEB532	Power Systems 1	8	3
EEB564	Information Theory Modulation & Noise	8	3

List B, 'A' Electives

EEB632	Power Systems 2	8	3
EEB667	Digital Communications	8	3
EEB974	VLSI Circuits and Systems	8	3

List C, 'A' Electives

EEB741	Power Systems Analysis	8	3
EEB752	Power Electronics	8	3
EEB762	Communications Technology	8	3
EEB763	Modern Signal Processing	8	3
EEB765	Microwave & Antenna Technology	8	3
EEB791	Advanced Engineering Computing 1	8	3
	OR		
	A third year 'A' elective not yet attempted		
	OR		
	'B' elective offered		

List D, 'A' Electives

EEB822	Advanced Control Systems	8	3
EEB842	Power Systems Engineering	8	3
EEB869	Signal Filtering and Estimation	8	3
EEB871	Applied Electronics	8	3
EEB891	Signal Computing & Real Time DSP	8	3
EEB892	Advanced Engineering Computing 2	8	3
	OR		
	A third year 'A' elective not yet attempted		
	OR		
	'B' elective offered		

List D, 'B' Electives

BNB003	Professional Practice in Asia/Pacific	8	3
EEB910	Photovoltaic Engineering	8	3
EEB923	Industrial Control Systems	8	3
EEB957	High Voltage Equipment	8	3
EEB958	Electrical Energy Utilisation	8	3
EEB959	Power Electronics Applications	8	3

EEB963	Statistical Communications	8	3
EEB965	Microwave Systems Engineering	8	3
EEB990	Advanced Information Technology Topics	8	3
EEB999	Advanced Electrical Engineering Topics	8	3

Computing Science Electives

ITB441	Graphics	12	3
ITB442	Foundations of Artificial Intelligence	12	3
ITB443	Systems Programming	12	3
ITB444	Special Studies 1	12	3
ITB445	Special Studies 2	12	3
ITB448	Object Technology	12	3
ITB449	Expert Systems	12	3
ITB454	Software Quality Assurance	12	3
ITB455	Integrated Software Engineering Environment	12	3
ITB456	Intelligent Graphic User Interfaces	12	3
ITB457	Foundation Programming	12	3
ITB461	Foundations of Neurocomputing	12	3
ITB463	Pattern Recognition	12	3
MAB172	Statistical Methods	12	3

■ Bachelor of Engineering (Manufacturing Systems)/Bachelor of Business (Marketing) (IF56)

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 568

Course Coordinator: Dr R.M. Iyer

Professional Recognition

Membership of the Institution of Engineers, Australia.
Diploma, Australian Institute of Export

Special Course Requirements

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

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

Students should not formally enrol in industrial employment/practice

Full-Time Course Structure	**Credit Points**	**Contact Hrs/Wk**

Year 1, Semester 1

BSB116	Marketing and International Business	12	3
BSB117	Professional Communication & Negotiation	12	3
CEB184	Engineering Mechanics 1	8	3
MAB103	Introductory Mathematics [10]	(8)	3

[10] *MAB103 Introductory Mathematics is to be taken only by those students not obtaining a SA or better in Queensland Maths C.*

MAB187	Engineering Mathematics 1A	8	4
MEB173	Manufacturing Practice	8	3
PHB134	Engineering Physics 1B	8	3

Year 1, Semester 2

BSB110	Accounting	12	3
BSB114	Government, Business and Society	12	3
MAB188	Engineering Mathematics 1B	8	4
MEB111	Dynamics	8	3
MEB134	Materials 1	8	3
MEB213	Mechanics of Solids	8	4

Year 2, Semester 1

BSB113	Economics	12	3
CSB192	Introduction to Computing	8	3
EEB101	Circuits and Measurements	8	3
EFB101	Data Analysis for Business	12	3
MAB487	Engineering Mathematics 2A	8	4
MEB181	Engineering Communication	8	4

Year 2, Semester 2

BSB115	Management, People and Organisations	12	3
CSB491	Unix and C	4	2
EEB209	Electrical Engineering 2M	8	3
MAB488	Engineering Mathematics 2B	8	4
MEB282	Design 1	8	4
MEB473	Manufacturing Engineering 1	8	4
MIB204	Consumer Behaviour	12	3

Year 3, Semester 1

MEB314	Mechanics 1	8	4
MEB352	Thermodynamics 1	8	4
MEB363	Fluids 1	8	4
MEB430	Materials 3	8	4
MEB572	Manufacturing Engineering 2	8	4
MIB217	Marketing Management	12	4

Year 3, Semester 2

BSB111	Business Ethics	12	3
EEB270	Digital Design Principles	8	3
MEB334	Materials 2	8	4
MEB641	Automation 1	8	4
MEB676	Design for Manufacturing 1	8	3
MIB305	Market Research	12	3

Year 4, Semester 1

AYB120	Business Law	12	3
MEB662	Fluid Power	8	4
MEB776	Design for Manufacturing 2	8	3
MEB777	Operations Management	8	3
MEB873	Computer Integrated Manufacturing	8	4
MIB213	International Marketing	12	3

Year 4, Semester 2

EFB210	Finance 1	12	4
MEB672	Total Quality Management	8	3
MEB678	Plastics Technology	8	3
MEB778	Concurrent Engineering	8	3
MEB871	Computer Control of Manufacturing Systems	8	4
MEB879	Manufacturing Resources Planning	8	3

Year 5, Semester 1

MEB901	Industry Project	32	40
MIB210	Export Management	12	3
MIB311	Services Marketing	12	3

Year 5, Semester 2

MEB872	Design for Manufacturing 3	8	3
MEB940	Knowledge Based Manufacturing Systems	8	3
MEB983	Industrial Automation	8	3
MIB216	Marketing Decision Making	12	3
MIB315	Strategic Marketing	12	3
	Elective Unit (select one unit from List A)		

Elective List

List A

MEB602	Special Topic 2	8	3
MEB661	Tribology	8	4
MEB741	Maintenance Management & Technology	8	3

■ Bachelor of Surveying/Bachelor of Information Technology (IF54)

See course requirements and notes relating to undergraduate courses in the Faculty of Built Environment and Engineering, and the Faculty of Information Technology sections.

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 542

Standard Credit Points/Full-Time Semester: 55 (average)

Course Coordinators:
Surveying: Associate Professor Brian Hannigan
Information Technology: Mr Michael Middleton

Professional Recognition

This course will be accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society. Graduates of the course are eligible to apply for registration as a Surveyor by the Surveyors Board of Queensland. Further experience and assessment is required for licensing.

Special Course Requirements

Students must obtain at least 90 days of industrial experience/practice in a surveying environment approved by the Course Coordinator.

Students must, not later than the fourth week of semester immediately following each period of industrial experience/practice, submit to the Surveying Course Coordinator a report or diary in the required format, describing the work carried out during the period of experience/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the School of Planning, Landscape Architecture and Surveying Office or the Faculty Industrial Employment Officer in Room 1006, ITE Building, Gardens Point campus. Should employment exceed the minimum required, it is strongly recommended that these details also be recorded in the report or diaries and certified by the employer as a record of experience which may be used when seeking registration or licensing by the Surveyors Board.

Students should not formally enrol in industrial experience/practice.

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

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ITB101	Laboratory 1 (Computing Environments)	12	3
ITB210	Formal Representation	12	3
ITB410	Software Development 1	12	3
MAB103	Introductory Engineering Mathematics[11]	(8)	(3)
MAB187	Engineering Mathematics 1A	8	3
PSB315	Land Administration 1	6	3
PSB325	Land Surveying 1	8	3
Year 1, Semester 2			
BSB118	Business Communication & Application Systems	12	3
ITB102	Laboratory 2 (Computer Applications)	12	3
ITB411	Software Development 2[12]	12	3
ITB412	Technology of Information Systems	12	3
MAB188	Engineering Mathematics 1B	8	3
PSB326	Land Surveying 2	8	3
Year 2, Semester 1			
ITB220	Database Design	12	3
MAB494	Survey Mathematics 1	6	3
PHB172	Physics for Surveyors	8	3
PSB327	Land Surveying 3	10	3
PSB342	Spatial Information Science 1	8	3
Year 2, Semester 2			
ESB229	Geology in the Built Environment	8	3
ITB310	Information Management 1	12	3
MAB496	Survey Mathematics 2	6	3
PSB054	Environmental Science	4	2
PSB306	Cartography 1	8	3
PSB328	Land Surveying 4	8	3
PSB334	Photogrammetry 1	6	3
Year 3, Semester 1			
ITB320	Laboratory 3 (Database Applications)	12	3
MAB795	Survey Mathematics 3	6	3
MAB893	Engineering Mathematics 3	8	3
MEB221	Engineering Science 1	6	3
PSB307	Cartography 2	10	3
PSB340	Remote Sensing 1	6	3
Year 3, Semester 2			
ITB323	Laboratory 4 (Information Support Methods)	12	3
ITB331	Information Management 2	12	3
PSB303	Analysis of Spacial Measurement 1	6	3
PSB308	Cartography 3	8	3
PSB317	Land Administration 3	8	3
SSB937	Applied Cognitive Psychology	12	3
Year 4, Semester 1			
ITB321	Systems Analysis	12	3
PSB304	Analysis of Spatial Measurement 2	6	3
PSB309	Cartography 4	8	3
PSB329	Land Surveying 5	8	3
PSB333	Map Projections	6	3
PSB335	Photogrammetry 2	8	3
PSB346	Spheroidal Computations	6	3

[11] *MAB103 Introductory Engineering Mathematics is to be taken only by those students not obtaining a SA or better in Queensland Mathematics C.*

[12] *Students who have already completed ITB411 should contact the Information Technology Course Coordinator to determine a substitute unit.*

Year 4, Semester 2

ITB341	Information Management 3	12	3
ITB520	Data Communications	12	3
PSB310	Geodesy 1	6	3
PSB330	Land Surveying 6	8	3
PSB336	Photogrammetry 3	8	3
PSB343	Spatial Information Science 2	8	3

Year 5, Semester 1

IFB880/1	Project	12	3
ITB330	Information Issues & Values	12	3
PSB344	Spatial Information Science 3	8	3
	Elective Unit(s)	24	

Year 5, Semester 2

IFB880/2	Project	12	3
PSB316	Land Administration 2	8	3
PSB324	Land Studies 2	6	3
PSB338	Professional Practice	6	3
PSB345	Spatial Information Science 4	8	3
	Elective Unit	12	

Elective Units

General elective units may be chosen from any unit in a QUT degree course subject to prerequisites and approval. The offering of elective units in any semester depends on sufficient minimum enrolments and availability of staff.

Recommended Business elective units are:

		Credit Points	Contact Hrs/Wk
First Semester			
BSB110	Accountancy	12	3
BSB113	Economics	12	3
BSB115	Management, People & Organisations	12	3
BSB116	Marketing & International Business	12	3
MGB207	Managing Human Resources	12	3
MJB118	Fundamentals of Photography	12	3
MJB200	Video Drama Production	12	3
Second Semester			
BSB114	Government, Business & Society	12	3
BSB115	Management, People & Organisations	12	3
BSB116	Marketing & International Business	12	3
COB213	Strategic Speech Communication	12	3
COB325	Public Relations Theory & Practice	12	3
ESB102	Economics 2	12	3
MGB207	Managing Human Resources	12	3

■ Bachelor of Surveying/Bachelor of Information Technology (IF55) (Mid-year entry)

See course requirements and notes relation to undergraduate courses in the Faculty of Built Environment and Engineering, and the Faculty of Information Technology sections.

Location: Gardens Point campus

Course Duration: 4.5 years full-time

Total Credit Points/Full-Time Semester: 55 (average)

Course Coordinators:
Surveying: Associate Professor Brian Hannigan
Information Technology: Mr Michael Middleton

Professional Recognition

This course has been accredited by the Australian Computer Society as meeting the kndge requirements associated with the grade of 'Member' of the Society. Graduates of the course are eligible to apply for registration as a Surveyor by the Surveyors Board of Queensland. Further experience and assessment is required for licensing.

Special Course Requirements

Students must obtain at least 90 days of industrial experience/practice in a surveying environment approved by the Course Coordinator.

Students must, not later than the fourth week of the semester immediately following each period of industrial employment/practice, submit to the Course Coordinator a report or diary in the required format, describing the work carried out during the period of employment/practice and including an Industrial Experience Record Form signed by the employer. Industrial Experience Record Forms are available from the School Office or Faculty Industrial Employment Officer in Room 1006, ITE Building, Gardens Point campus. Should employment exceed the minimum required, it is strongly recommended that these details also be recorded in the report or diaries and certified by the employer as a record of experience which may be used when seeking registration or licensing by the Surveyors Board.

Students should not formally enrol in industrial employment/practice.

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

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 2			
ESB229	Geology in the Built Environment	8	3
ITB310	Information Management 1	12	3
MAB103	Introductory Engineering Mathematics[13]	8	3
	OR		
MAB187	Engineering Mathematics 1A	(8)	4
PHB172	Physics for Surveyors	8	3
PSB054	Environmental Science	4	2
PSB306	Cartography 1	8	3
Summer School			
MAB188	Engineering Mathematics 1B	8	4
PSB325	Land Surveying 1	8	3
PSB326	Land Surveying 2	8	3
Year 2, Semester 1			
BSB118	Business Communication & Application Systems	12	3
ITB101	Laboratory 1 (Computing Environments)	12	3
ITB210	Formal Representation	12	3
ITB410	Software Development 1	12	3
MAB494	Surveying Mathematics 1	6	3
PSB327	Land Surveying 3	10	3
Year 2, Semester 2			
ITB102	Laboratory 2 (Computing Applications)	12	3
ITB411	Software Development 2	12	3
ITB412	Technology of Information Systems	12	3
MAB496	Surveying Mathematics 2	6	3
PSB334	Photogrammetry 1	6	3

[13] *MAB103 Introductory Engineering Mathematics is to be taken by those students not obtaining a SA or better in Queensland Mathematics C.*

Year 3, Semester 1

ITB220	Database Design	12	3
MAB795	Surveying Mathematics 3	6	3
MAB893	Engineering Mathematics 3	8	3
MEB221	Engineering Science 1	6	3
PSB307	Cartography 2	10	3
PSB340	Remote Sensing 1	6	3
PSB342	Spatial Information Science 1	8	3

Year 3, Semester 2

ITB331	Information Management 2	12	3
PSB303	Analysis of Spatial Measurement 1	6	3
PSB308	Cartography 3	8	3
PSB315	Land Administration 1	6	3
PSB317	Land Administration 3	8	3
PSB328	Land Surveying 4	8	3
SSB937	Applied Cognitive Psychology	12	3

Year 4, Semester 1

ITB320	Laboratory 3 (Database Applications)	12	3
ITB321	Systems Analysis	12	3
PSB304	Analysis of Spatial Measurement 2	6	3
PSB309	Cartography 4	8	3
PSB329	Land Surveying 5	8	3
PSB333	Map Projections	6	3
PSB346	Spheroidal Computations	6	3

Year 4, Semester 2

ITB323	Laboratory 4 (Information Support Methods)	12	3
ITB341	Information Management 3	12	3
ITB520	Data Communications	12	3
PSB310	Geodesy 1	6	3
PSB330	Land Surveying 6	8	3
PSB343	Spatial Information Science 2	8	3

Year 5, Semester 1

IFB880/1	Project	12	3
ITB330	Information Issues & Values	12	3
PSB335	Photogrammetry 2	8	3
PSB344	Spatial Information Science 3	8	3
	Elective Unit(s)	24	

Year 5, Semester 2

IFB880/2	Project	12	3
PSB316	Land Administration 2	8	3
PSB324	Land Studies 2	6	3
PSB338	Professional Practice	6	3
PSB345	Spatial Information Science 4	8	3
PSB336	Photogrammetry 3	8	3
	Elective Unit	12	

Elective Units

General elective units may be chosen from any unit in a QUT degree course subject to prerequisites and approval. The offering of elective units in any semester depends on sufficient minimum enrolments and availability of staff.

Recommended Business elective units are:

		Credit Points	Contact Hrs/Wk
First Semester			
BSB110	Accountancy	12	3
BSB113	Economics	12	3
BSB115	Management, People & Organisations	12	3

BSB116	Marketing & International Business	12	3
MGB207	Managing Human Resources	12	3
MJB118	Fundamentals of Photography	12	3
MJB200	Video Drama Production	12	3

Second Semester

BSB114	Government, Business & Society	12	3
BSB115	Management, People & Organisations	12	3
BSB116	Marketing & International Business	12	3
COB213	Strategic Speech Communication	12	3
COB325	Public Relations Theory & Practice	12	3
ESB102	Economics 2	12	3
MGB207	Managing Human Resources	12	3

■ New Opportunities in Tertiary Education (NOTE) Program (BN10)

Location: Gardens Point campus

Course Duration: 1 year

Standard Credit Points/Full-Time Semester: 36

Course Coordinators: Mrs Jenny Danslow, Ms Deborah Messer

A one-year bridging program for women. The program provides bridging tuition to enable women who have the abilities – but not the entry requirements – to undertake study in engineering, science or technology courses at QUT.

This program assists with articulation into certain courses within the Faculties of Built Environment and Engineering, Information Technology and Science.

Students are guided into a study program which takes account of their background and the course to which entry is sought. Units are selected from a combination of bridging units and units from the first year degree program to which entry is sought. The bridging units are as follows:

		Credit Points	Contact Hrs/Wk
CHS200	Chemistry	6	3
ITB001	Computing Practice (NOTE) 1	6	3
ITB002	Computing Practice (NOTE) 2	6	3
MAS090	Mathematics (a full year unit)	12	3
MAS091	Mathematics	12	6
PHS021	Introductory Physics	6	3