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QUT IN BRIEF

History

QUT officially became a university in January 1989 but its origins go back to the formative years of technical education in Queensland with establishment of the Central Technical College on the present George Street campus in 1914.

Fifty years later, the State Government responded to growing demand within industry for trained managers and technologists by setting up the Queensland Institute of Technology (QIT) on the same campus. QIT absorbed professional courses of the Central Technical College, beginning with 2000 part-time students; trade and certificate courses were transferred to suburban technical colleges.

From 1965 to 1988, QIT evolved as a major, quality, higher education institution. Employers and the professions were closely involved in the design of courses to ensure graduates had a balance of theory and professional skills suitable for the workplace. Extending this partnership, academics also engaged in problem-solving for industry, forming a solid applied research base.

The Queensland Government recognised QIT as being of university standard with the passing of the Queensland University of Technology Act, effective 1 January 1989. The Act granted wider powers in academic programs and research ventures.

QUT Now

QUT has 1100 staff, 11,000 students (8000 equivalent full-time students), a convocation of 20,000, and an annual budget of \$70 million.

The QUT Act enables the University to play a leading role in technological education and in facilitating the economic development of the State through technology transfer between tertiary education and commerce, industry, government and the professions.

Its location in the heart of Brisbane, Queensland's capital, makes it the central city campus for the capital and its workers, and a convenient source of advice on the State's technological and business problems.

The University specialises in business, law and technology, attracting many of the brightest students in the State (median TE score for degree entry in 1989 was 935). Seven faculties offer more than 70 courses at degree or postgraduate level (including PhDs from 1989), all with a practical emphasis.

The graduate employment record is excellent - employers value QUT graduates for their balance of theory and practical skills.

QUT's technology orientation and close vocational involvement with commerce and industry place it in a unique position to understand and respond to industry needs through research and consulting, now worth \$6 million per year. Research focuses on these centres:

Australian Key Centres

Land Information Studies Strategic Management



University Centres Biological Population Management Eye Research Molecular Biotechnology Product and Process Development Terotechnology.

There are also several department-based centres.

The University has been credited with recent product development firsts in the fields of biotechnology and manufacturing. It is already making a significant contribution to the economic development of Queensland.

The Future

Following an approach from the Brisbane College of Advanced Education (BCAE), QUT and BCAE reached agreement on the basis for amalgamation in October 1989 pending special legislation in 1990.

It is anticipated that the new institution will be formed under the QUT Act, retaining the QUT name, and will incorporate the Kelvin Grove, Kedron Park and Carseldine campuses of BCAE, and the Gardens Point campus of QUT. BCAE's Mt Gravatt campus will merge with Griffith University.

If the proposed amalgamation proceeds, the new QUT will be a large university in national terms with 20,000 students (14,000 equivalent full-time students), and potential to double in size by the year 2000. Its range of courses will be even broader and, under Commonwealth guidelines, it will compete more effectively for government funds, enabling development of research centres of excellence.

QUT will retain its distinctiveness as the university which:

services Brisbane city and the north Brisbane region, extending to the Sunshine Coast in the future;

regards quality education as its primary function (research being a natural extension of postgraduate education);

has a practical, vocational emphasis; and

responds to the needs of the community.



GLOSSARY OF COMMON ABBREVIATIONS

CIAE	Capricornia Institute of Advanced Education, Rockhampton
DDIAE	Darling Downs Institute of Advanced Education, Toowoomba
GDAA	Graduate Diploma of Advanced Accounting
GDBA	Graduate Diploma in Business Administration
GPA	Grade Point Average
GU	Griffith University, Brisbane
HECS	Higher Education Contribution Scheme
ISRC	Information Security Research Centre
NOTE	New Opportunities in Tertiary Education
NSS	Notional Selection Score
РҮ	Professional Year
QAC	Queensland Agricultural College, Lawes
QTAC	Queensland Tertiary Admission Centre
ТЕ	Tertiary Education

QUT ACADEMIC CALENDAR 1990

JANUAF	IY			MON	TUE	WED	THU	FRI	SAT	SU
/1-18/2 !	Summer recess Public Holiday – New Year's Day Closing date for lodgement of applications for review of Spring semester 1989 examination results	J A		8 15	2 9 16	3 10 17	4 11 18	5 19	6 13 20	7 14 21
2 2 3–27	Closing date for lodgement of applications for admission by unregistered and re-registering students Closing date for lodgement of re-enrolment forms and due date for payment of guida tees by all continuing students Supplementary/Deferred examinations	N		22 3	23 30	24 31	25	-26	27	28
6 9	Public Holiday – Australia Day Closing date for return of Applications to Graduate			MON	TUE	WED	THU	FRI	SAT	SU
		F		5	6	7	1 8	2 9	3	4 11
EBRUA	RV			12	13	14	15	9 16	10 17	18
4 5–16 9	Parents' Orientation (ceremony 7pm 14/2/90) Orientation Program (ceremony 10am 15/2/90) Autumn semester commences	B	WK 1 WK 2	19 ©	20 27	21 28	22	23	24	25
9	Final date for notification of changes to HECS payment option Commencement date for Legal Practice Course	-		MON	TUE	WED	тни	FRI	SAT	su
		M		1997 - San			1	2	3	4
IARCH			WK 3	5	6	7	8	ទ	10	1
	Final date for addition and substitution of Autumn semester subjects and for change of course	<u> </u>	WK 4 WK 5	12 19	13 20	14 21	15 22	16 23	17 24	1
))	Subjects and to relating of obuse Final date for Exemption applications Final date for cancellation of Autumn semester subjects and full year subjects without 'Fail' results being awarded Final date for cancellation of course with a refund of guild fees	B	WK 6	26	27	28	29	0	Ő	2.
1	HECS liability for Autumn semester determined by enrolled program on this date			MON	TUE	WED	THU	FRI	SAT	
PRIL			WK 7	2	3	4	5	6	7	1 8
-11	HECS statement for Autumn semester posted to students	P	WK 8	9	10 17	11	12 19	<u> 1년</u> 20	14 21	1: 2:
3 422	Public Holiday Good Friday Mid semester recess	B	WK 9	<u>16</u> 23	Ś	18 25	26	27	28	2
6 719,	Public Holiday – Easter Monday Graduation Ceremonies (Queensland Performing Arts Complex)		WK 10	30		22422				
3, 24 4 5	Friday timetable in tieu of 13 April – Good Friday Public Holiday – Anzac Day			MON		WED			SAT	
		W	WK 11	107	1 8	2 9	3 10	4 11	5 12	E 13
		A	WK 12	14	15	16	17	18	19	2
IAY		M	WK 13	21	0	23	24	25	26	2
-18 2	Campus Interview Program Public Holiday – Labor Day Autumn semester examination timetables placed on noticeboards		WK 14	28	29 	30	31	· · · ·		
				MON	TUE	WED	тни	FRI	SAT	SL
UNE		J		4	5	6	7	: 1 8	2 9	3 1-
12	Autumn semester ends	U			12	13	14	15	9 16	1
1	Examination preparation Public Holiday – Queen's birthday			18	19	20	21	22	23	2
3–30 9	Autumn semester examinations Closing date for lodgement of application for admission by unregistered and re-registering students in Spring semester			25	26	27	28	69	30	

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QUT ACADEMIC CALENDAR 1990

							SPRIN	IG SE	MESTE	
MON	TUE	WED	THU	FRI	SAT				JULY	
2 9 16 23 30	3 10 17 24 31	(4) 11 18 (2)	5 12 19 26	6 13 20 27	7 14 21 28	1 8 15 22 29	WK 1	j U L	129 4 1619 2326	Winter recess Closing date for lodgement of applications for deferred examinations and for special consideration of matters affecting examination performance (refer General Examination Rules 11–14) Progressive public release of Autumn semester examination results QUT Career Evening Program
MON 6 13 27	7 14 21 28	WED 1 8 15 22 29	THU 2 9 16 23 30	FRI 3 17 24 3	SAT 4 11 18 25	5 12 19 26	WK 2 WK 3 WK 4 WK 5	A U G	25 28/7-4/8 30 30 30 AUGUST 10	Final date for addition and substitution of Spring semester subjects and for change of course Final date for Exemption applications for students commencing in
MON 3 10 17 24	4 11 18 25	5 12 19 26	THU 6 13 20 27	FRI 7 14 21 28	5AT 1 8 15 22 29	2 9 16 23 30	WK 6 WK 7 WK 8	Я Ш Р,	15 20 20/8–7/9 31 31 31	Spring semester Public Holiday – Exhibition Day (tentative) Wednesday timetable in lieu of Exhibition Day (tentative 15/8) Campus Interview Program Final date for cancellation of Spring semester subjects without 'Fail' results being awarded Final date for cancellation of course with a refund of Spring semester guild fees HECS liability for Spring semester determined by enrolled program on this date
MON ① 8	TUE 2 9	WED 3 10	THU 4 11	FRI 5 12	SAT 6 13	SUN 7 14	WK 9 WK 10	0	SEPTEM 1012 20/8-7/9 22-30	BER HECS statement for Spring semester posted to students Campus Interview Program Mid-semester recess
15 22 29	16 23 30	17 24 31	18 25	19 2 9	20 27	21 28	WK 11 WK 12 WK 13	C T	OCTOBE	ER OTAC closing date (lentative) Graduation Ceremony (Queensland Performing Arts Complex) Spring semester examination timetables placed on noticeboards
MON	TUE	WED	THU		SAT					
5 12 19 26	6 13 20 27	7 14 21 28	1 8 15 22 29	2 9 16 23 30	3 10 17 24	4 11 18 25	WK 14	N O V	12 13–18	Spring semester ends Examination preparation Spring semaster examinations
3 17	TUE 4 11 18 25	5 12 19	THU 6 13 20 27	FRI ⑦ 14 21 28	SAT 1 15 22 29	2 9 16 23 30		D E C	19/11-6/12 7 7-31/12 10 20-22 25 26	Spring Semester examinations Closing date for lodgement of applications for admission to postgraduate courses Summer recess Closing date for lodgement of applications for deferred examination and for special consideration of matters affecting examination performance (refer General Examination Rules 11–14) Progressive public release of Spring semester examination results Public Holiday – Christmas Day Public Holiday – Boxing Day



UNIVERSITY-WIDE AND INTERFACULTY COURSES

UNIVERSITY-WIDE AND INTERFACULTY COURSES

Courses Offered

- IFN249 Doctor of Philosophy available in all faculties
- Master of Applied Science by Research & Thesis in the Faculties of
 TN184 Built Environment HSN184 Health Science and
 1NN184 Information Technology
- IFM242 Graduate Diploma in Quality
- IFJ222 Bachelor of Engineering/Bachelor of Applied Science Electronics and Computing
- **IFJ223** Bachelor of Business Accountancy/Bachelor of Laws
- IFJ235 Bachelor of Business Computing/Bachelor of Laws
- IFJ237 Bachelor of Engineering/Bachelor of Business Manufacturing Systems and Management
- IFJ251 Bachelor of Applied Science Surveying/Bachelor of Business - Information Management
- ENS200 New Opportunities in Tertiary Education (N.O.T.E) Program

Course Structures

IFN249 Doctor of Philosophy

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 student'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 1988.
- 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/department, 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 s/he 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 Committee 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 PhD 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 master degree (by coursework or by thesis) of the 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 if:
 - □ after consulting a candidate's supervisors and having taken account of all relevant circumstances, the Committee is of the opinion that the candidate either has effectively discontinued his/her studies or has no reasonable expectation of

completing the course of study within the maximum time allowed (see Section 4), or

- □ the candidate's grade point average in coursework undertaken is below 5.00 on a 7 point scale.
- 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.

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 student 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 half of the total period of registration (see Section 4).
- 3.5 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 nature of participation in scholarly activities of the centre, department, 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 master degree appropriate to the course of study will normally be required to complete a period of registration of at least thirty months before submitting the thesis for examination. The corresponding period in the case of a part-time candidate shall be forty-two months. In special cases the Research Management Committee may approve a shorter period.
- 4.2 A holder of a master degree appropriate to the course of study may submit the thesis for examination after not less than twenty-four months of registration if a full-time student, or thirty-six 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 forty-eight 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 sixty 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 Where a candidate has undertaken part of a proposed course of study as a registered student in another institution, this period of registration may, on application in writing to the Research Management Committee at the time of application for



registration, be counted towards the candidate's period of registration in the QUT course. The application must include details of the work already undertaken, the reasons for the transfer and the expected date of completion.

- 5.2 A candidate registered for a master degree at QUT or elsewhere may apply for transfer to the PhD degree.
- 5.3 Application for transfer of registration from a master degree must be made on the prescribed form and normally may be made after at least twelve months registration in the master degree. The candidate shall prepare for the Research Management Committee a detailed progress report, and the Committee shall seek the advice of the candidate's supervisors. Where coursework has been undertaken as part of the master degree, a transfer normally may be approved only if the candidate has attained a grade point average of at least 5.00 on a 7 point scale.
- 5.4 Applications for transfer normally should be submitted at least twenty-four months in advance of the probable date of submission of the PhD thesis.
- 5.5 The registration period for the PhD shall include such prior registration approved by the Research Management Committee.
- 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 master 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 master 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 is required to report every six months to the Research Management Committee on progress made by the student. Each progress report is to be sighted by the student and submitted through the head of school/department.

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



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 s/he 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. 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).



- 9.5 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 QUT and the sponsoring establishment, if any.
- 9.11 External examiners should normally have substantial research experience in the area under investigation. 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 be an Associate Supervisor.
- 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 examiners' report shall recommend (a) that the degree be awarded, with or without minor modifications to the thesis, or (b) that the candidate be re-examined, or (c) that the degree not be awarded. 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, 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. The Committee may then (a) not award the degree, or (b) accept a majority recommendation with or without the advice of a further external examiner.



- 9.18 Re-examination shall take place within twelve 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 Master's program.

Master of Applied Science by Research & Thesis

This research program is available in

the Faculty of Built Environment (BTN184) the Faculty of Health Science (HSN184) the Faculty of Information Technology (INN184)

For the corresponding program in the Faculty of Science, refer to the description of ASN273 Master of Applied Science in the Faculty of Science chapter.

Introduction

The objectives of the course are:

- to provide postgraduate educational opportunities in specialised fields of applied science 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.

I. 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 master degree courses to faculty academic boards. Academic boards shall report biannually to Research Management Committee on progress made by research master degree candidates.
- 1.4 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 have 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 s/he has not been a candidate for another tertiary award without permission of the academic board.

2. Registration

- 2.1 Applications shall be accepted subject to the availability of facilities and supervision.
- 2.2 Applications may be lodged with the Registrar at any time.
- 2.3 The minimum academic qualifications for admission to a program leading to a Master of Applied Science by Research and Thesis, shall be
 - □ possession of a bachelor degree in health science, applied science or other approved degree from the Queensland University of Technology, or
 - D 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/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/she is a fit person to undertake the program
- □ has satisfied the academic board that he/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/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:

- $\hfill\square$ 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:
 - $\hfill\square$ 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
 - $\hfill\square$ 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 twelve months has elapsed from initial registration. The corresponding period in the case of a part-time student shall be at least twenty-four months.
- 4.2 A registered graduate student shall present the thesis for examination after a period of at least 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/department 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/department 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 candidate 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/department 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 master 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/department 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 master 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, and
 - □ 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 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 student to resubmit the thesis within one year for re-examination, or
 - □ cancel the student's registration.

IFM242 Graduate Diploma in Quality

The course is administered by the Academic Boards of the Faculties of Business, Engineering and Science via a three-person Executive Committee.

Course Duration: 4 semesters part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Ian Ogle

Entry Requirements

To be eligible for enrolment in the Graduate Diploma in Quality, an applicant shall have completed a course at degree level or possess an equivalent qualification in Science, Engineering, Management, Commerce, Education or another field deemed to be appropriate.

Where an equivalent course of study or examination cannot be readily established, an applicant may, in accordance with University practice, be recommended for special entry. This type of entry may depend collectively on such factors as the applicant's qualifications, background experience, current employment position, etc.



Part-Time	Course Structure	Credit Points	Contact Hrs/Wk	Duration (Wks)
Semester 1	(Autumn)			
MEP173 MNP112 MAP111 MNP113	Quality Control Planning Quality System Management Statistical Methods in Quality Managing Communications for	6 6 6	3 3 3	1-7 1-7 8-14
	Quality	6	3	8-14
Semester 2	(Spring)			
MEP273 MAP121 ACP213 MNP123	Quality Measurement & Testing Statistical Process Control Quality Cost Analysis Human Factors in Quality	6 6 6 6	3 3 3 3	1-7 1-7 8-14 8-14
Semester 3	(Autumn)			
MAP211 MNP218 MEP371 ISP380	Sampling Procedures Economic Analysis Reliability & Maintainability Quality Informations Systems	6 6 6 6	3 3 3 3	1-7 1-7 8-14 8-14
Semester 4	(Spring)			
MEP473 MAP221	Quality Systems & Assessment Quality Problem Solving	8	2	1-14
IFP222	Techniques Project	8 8	2 2	1-14 1-14

IFJ222 Bachelor of Engineering/Bachelor of Applied Science - Electronics and Computing

Course Duration: 10 semesters full-time, 14 semesters part-time

Total Credit Points: 467

Standard Credit Points/Full-Time Semester: 46.7

Course Co-ordinators: Mr John Edwards, Dr Joaquin Sitte

Special Course Requirement

All students shall have engaged in a total of at least fifteen weeks in employment approved by the Co-ordinator to satisfy the vacation practice requirements of the course.

To gain approval for the employment, the student must submit a description of employment to the Co-ordinator - on the appropriate 'Industrial Experience Record' form completed by both the student and employer.

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
MAB193	Engineering Mathematics I*	6	3
CSB100	Introduction to Computer Science	9	3
EEB101	Circuits & Measurements	7	3
EEB202	Electromagnetics	6	3



PHB132	Engineering Physics IA	6	3
ISB102	Representation of Information	9	3
INB125	Practice IA (IFJ222)	6	2
IND125	Tractice IA (II J222)	0	2
Semester 2	(Spring)		
		<i>p</i>	2
MAB193	Engineering Mathematics I*	6	3
EEB203	Circuit Analysis	5	3
EEB272	Digital Principles	3	1.5
CSB110	Programming Principles	9	3
PHB232	Engineering Physics IIA	6	3
CMB108	English for Technologists	6	3
CSB101	Computer Systems I	9	3 3 3 2 2
INB130	Practice IB (IFJ222)	6	2
INB180	Practice IIB (IFJ222)	6	2
EEB901	Industrial Experience I	Ū	5 weeks
LLD 701	Industrial Experience 1		J WCCK3
Semester 3	(Autumn)		
	•	<i>,</i>	2
MAB493	Engineering Mathematics II*	6	3
EEB303	Network Theory I	7	3
EEB361	Signals & Systems	7	3
CSB200	Foundations of Computing I	9	3
EEB371	Electronic Devices	5	3
EEB372	Sequential Logic	5 7	3
EEB302	Electrotechnology	6	3
INB225	Practice IIIA (IFJ222)	6	3 3 3 3 3 3 2
		-	
Semester 4	(Spring)		
MAB493	Engineering Mathematics II*	6	3
EEB401	Network Theory II	6	3
EEB471	Electronics	, 7	3
EEB561	Analogue Communications	6	3 3 3 3 3 3 2
		6	2
EEB472	Microprocessors		2
CSB213	Scientific Applications	9	3
CSB210	Foundations of Computing	6	2
INB275	Practice IVA (IFJ222)	6	2
EEB902	Industrial Experience II		5 weeks
Somoston 5	(Autumn)		
Semester 5	•	_	_
CSB201	Computer Systems II	9	3
EEB591	Systems Programming Languages	6	3
EEB473	Integrated Circuits	6	3
EEB573	Industrial Electronics	6	3
EEB587	Design I	6	3
MAB893	Engineering Mathematics III	6	3 3 3 3 3 3 3
EEB520	Control Engineering	6	3
Semester 6	í (Spring)		
CSB212	Language & Language Processes	9	3
EEB602	Signal Processing	6	3
EEB661	Information Theory & Noise	6	3
MAB894	Engineering Mathematics IV	6	ž
CSB301	Operating Systems	9	3 3 3
EEB620		6	2
	Control Systems Analysis		2
INB281	Practice IVB (IFJ222)	6	
EEB903	Industrial Experience III		5 weeks
Semester 7	(Autumn)		
		0	2
CSB302	Software Engineering	9	3
EEB968	Digital Signal Processing	7	3
EEB967	Digital Communications	6	3 3 3 3
EEB788	Design II	6	3



EEB821 EEB971	Production Technology & Quality Applied Electronics	6 6	3 3
Semester 8	(Spring)		
EEB601 EEB430	Realtime Operating Systems Engineering Fields	6 6	3 3 3 3 3 3 3
EEB621	Advanced Control Systems	6	3
EEB887 EEB820	Design III Engineering Management	6 8	3
CSB311	Advanced Computer Architecture	9	3
Semester 9	(Autumn)		
EEB789	Project*	15	6
EEB562	Transmission & Propagation	6	6 3 3 3
	ONE Computing Elective Subject	9 7	3
	ONE Electrical Elective Subject	7	3
Semester 1	0 (Spring)		
EEB888	Design IV	10	3
EEB789	Project*	15	6
	ONE Computing Elective Subject	9 7	6 3 3
	ONE Electrical Elective Subject	/	3
ELECTRIC	AL ELECTIVE SUBJECTS		
EEB761	Statistical Communication	7	3
EEB922	Computer Controlled Systems	7 7 7 7	3 3 3 3 3 3 3 3
EEB961	Communication Techniques	7	3
EEB962	Microwave Systems Engineering	7	3
EEB972 MAB920	Integrated Electronic Techniques	12	3
-	Coding & Encryption Techniques	12	3
COMPUTING ELECTIVE SUBJECTS			
CSB320	Special Studies	9	3
CSB321	Graphics	9	3
CSB323	Data Security	9	3
CSB324	Artificial Intelligence	9	3
CSB325	Expert Systems	9 9	5
ISB202 ISB201	Database & Procedural Languages	9	3
ISB201	Information Systems Analysis & Design I Information Systems Analysis & Design II	9	3 3 3 3 3 3 3 3 3
100210	monución bysienis Anarysis & Design n	,	5

Note: Alternatively, any advanced core subject not previously completed in either the Electrical and Computer Engineering or Computer Science degree courses may be studied as an elective.

Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
MAB193	Engineering Mathematics I*	6	3
CSB100	Introduction to Computer Science	9	3
EEB101	Circuits & Measurements	7	3
EEB202	Electromagnetics	6	3
PHB132	Engineering Physics IA	6	3
INB125	Practice IA (IFJ222)	6	2
Semester 2 (Spring)			
MAB193	Engineering Mathematics I*	6	3
EEB203	Circuit Analysis	5	3
PHB232	Engineering Physics IIA	6	3



ISB102 INB180 EEB272 EEB901	Representation of Information Practice IIB (IFJ222) Digital Principles Industrial Experience I	9 3 3	3 1.5 1.5 5 weeks
Semester 3 MAB493 EEB303 CSB200 CSB101 INB225 EEB302	(Autumn) Engineering Mathematics II* Network Theory I Foundations of Computing Computer Systems I Practice IIIA (IFJ222) Electrotechnology	6 7 9 9 6 6	3 3 3 2 3
Semester 4 MAB493 CSB110 EEB401 CSB213 INB130 INB275 EEB902	(Spring) Engineering Mathematics II* Programming Principles Network Theory II Scientific Applications Practice IB (IFJ222) Practice IVA (IFJ222) Industrial Experience II	6 9 6 9 6 6	3 3 3 2 2 5 weeks
Semester 5 EEB361 EEB371 EEB372 MAB893 CSB210	(Autumn) Signals & Systems Electronic Devices Sequential Logic Engineering Mathematics III Foundation of Computing II	7 5 7 6 9	3 3 3 3 3
Semester 6 EEB471 EEB472 EEB561 MAB894 EEB903	(Spring) Electronics Microprocessors Analogue Communications Engineering Mathematics IV Industrial Experience III	7 6 6 6	3 3 3 5 weeks
Semester 7 CSB201 EEB591 EEB573 EEB587	(Autumn) Computing Systems II Systems Programming Languages Industrial Electronics Design I	9 6 6 6	3 3 3 3
Semester 8 EEB473 EEB602 CSB212 INB281 CMB108	(Spring) Integrated Circuits Signal Processing Language & Language Processing Practice IVB (IFJ222) English for Technologists	6 6 9 6 6	3 3 2 3
Semester 9 CSB301 EEB520 CSB302 EEB661	-	9 6 9 6	3 3 3 3
Semester 1 EEB620 EEB967 EEB621 CSB311	0 (Spring) Control Systems Analysis Digital Communications Advanced Control Systems Advanced Computer Architecture	6 6 6 9	3 3 3 3



EEB430	Engineering Fields	б	3	
Semester 1	1 (Autumn)			
EEB562 EEB788 EEB821	Transmission & Propagation Design II Production Technology & Quality ONE Computing Elective Subject	6 8 6 9	3 3 3 3	
Semester 12	2 (Spring)			
EEB601 EEB887 EEB820 EEB971	Realtime Operating Systems Design III Engineering Management Applied Electronics ONE Computing Elective Subject	6 6 8 6 9	3 3 3 3 3	
Semester 13 (Autumn)				
EEB968 EEB789	Digital Signal Processing Project* (Electronic Systems Engineering) ONE Electrical Elective Subject	7 15 7	3 6 3	
Semester 14 (Spring)				
EEB888 EEB789	Design IV Project* (Electronic Systems Engineering) ONE Electrical Elective Subject	10 15 7	3 6 3	

IFJ223 Bachelor of Business - Accountancy/Bachelor of Laws

Course Duration: 10 semesters full-time

Total Credit Points: 562

Standard Credit Points/Full-Time Semester: 56.2

Course Structure		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
ACB110 MAB173 MNB151 LWB101 LWB104	Accounting I Quantitive Methods Microeconomic Analysis Introduction to Law* Legal Research & Writing I*	12 12 12 12 12 4	4 3 3 3 1
Semester 2	(Spring)		
ACB111 ISB392 MNB252 LWB101 LWB104	Accounting II Business Computing Business Statistics Introduction to Law* Legal Research & Writing I*	12 12 12 12 4	4 3 3 1
Semester 3 (Autumn)			
ACB210 ISB492 MNB251 LWB102 LWB103	Company Accounting Computerised Accounting Systems Macroeconomic Analysis Law of Contract* Torts*	12 12 12 12 12	4 4 3 3 3



Semester 4	(Spring)			
ACB220	Cost Accounting	12	4	
ACB230	Financial Management I	12	4	
MNB412 LWB102	Management & Organisations Law of Contract*	12 12	3 3	
LWB102	Torts*	12	3	
Semester 5		I L	5	
ACB321		12	4	
ACB321 ACB331	Managerial Accounting Financial Management II Accounting Elective	12	4	
LWB202	Criminal Law & Procedure*	12	3	
LWB203	Constitutional Law*	12	3	
Semester 6	(Spring)			
ACB310	Accounting Theory & Practice	12	4	
ACB311	Auditing	12	3 3	
LWB202 LWB203	Criminal Law & Procedure* Constitutional Law*	12 12	3	
L W B203	One Law Elective Subject	8-12	2-3	
Comoston 7		0.12	23	
Semester 7 LWB201	· · ·	12	7	
LWB301	Land Law* Equity*	12	3	
LWB303	Commercial Law*	12	3 3	
LWB311	Administrative Law*	12	3	
	One Law Elective Subject	8-12	2-3	
Semester 8	(Spring)			
LWB201	Land Law*	12	3	
LWB301	Equity*	12	3 3 3	
LWB303	Commercial Law*	12	3	
LWB311	Administrative Law* One Law Elective Subject	12 8-12	3 2-3	
G0		0-12	2-5	
Semester 9	· · · ·	0	2	
LWB309 LWB401	Succession Company Law & Partnership*	8 12	2 3 3 2 2	
LWB402	Evidence	12	3	
LWB403	Taxation Law*	12	3	
LWB404	Civil Procedure*	8	2	
LWB414	Drafting & Legal Transactions*	8		
LWB415	Legal Research & Writing II*	4	1	
Semester 1	Semester 10 (Spring)			
LWB401	Company Law & Partnership*	12	3	
LWB403	Taxation Law*	12	3	
LWB404 LWB409	Civil Procedure* Professional Conduct (5 weeks)	8	2	
LWB414	Drafting & Legal Transactions*	2 8	3 3 2 2 2	
LWB415	Legal Research & Writing II*	4	ī	
	-			

IFJ235 Bachelor of Business - Computing/Bachelor of Laws

Course Duration: 10 semesters full-time

Total Credit Points: 553

* Full-year subject



Standard Credit Points/Full-Time Semester: 55.3

Course Co-ordinator: Mr Bob Smyth

Special Course Requirements

The offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject and the availability of staff. The choice of all electives is subject to the approval of the relevant Head of School.

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1 CSB100 INB100 ISB101 ISB102 MAB172	(Autumn) Introduction to Computer Science Practice I (INJ232) Application Systems Representation of Information Quantitative Methods IB	9 12 9 9 9	3 4 3 3 3
Semester 2			
CMB104 CSB101 CSB110 INB150 ISB201	Professional Communication Computer Systems I Programming Principles Practice II (INJ232) Information Systems Analysis & Design	9 9 12 1 9	3 3 3 4 3
Semester 3	(Autumn)		
INB201 INB270 ISB202 LWB101 LWB102 LWB104	Practice III (ISJ210) Data Communications Database & Procedural Languages Introduction to Law* Law of Contract* Legal Research & Writing I*	12 9 9 12 12 4	4 3 3 3 3 1
Semester 4	(Spring)		
INB251 ISB210 ISB302 LWB101 LWB102 LWB104	Practice IV (ISJ210) Information Systems Analysis & Design Database Management Introduction to Law* Law of Contract* Legal Research & Writing I*	12 9 12 12 12 4	4 3 3 3 3 1
Semester 5	(Autumn)		
INB301 ISB301 LWB103 LWB202 LWB203	Project Work Advanced Information Systems Torts* Criminal Law & Procedure* Constitutional Law*	12 9 12 12 12	4 3 3 3 3
Semester 6 (Spring)			
ISB313 ISB314 LWB103 LWB202 LWB203	Expert Information Systems Information Systems Management Torts* Criminal Law & Procedure* Constitutional Law*	9 9 12 12 12	3 3 3 3 3
Semester 7 (Autumn)			
LWB201 LWB301	Land Law* Equity*	12 12	3 3

* Full-year subject



LWB303 LWB311	Commercial Law* Administrative Law* One Law Elective Subject	12 12 8-12	3 3 2-3
Semester 8	(Spring)		
LWB201 LWB301 LWB303 LWB311	Land Law* Equity* Commercial Law* Administrative Law* One Law Elective Subject	12 12 12 12 8-12	3 3 3 2-3
Semester 9	(Autumn)		
LWB309 LWB401 LWB402 LWB403 LWB404 LWB414 LWB415	Succession Company Law & Partnership* Evidence Taxation Law* Civil Procedure* Drafting & Legal Transactions* Legal Research & Writing II*	8 12 12 12 8 8 4	2 3 3 2 2 1
Semester 1	0 (Spring)		
LWB401 LWB403 LWB404 LWB409 LWB414 LWB415	Company Law & Partnership* Taxation Law* Civil Procedure* Professional Conduct (5 weeks) Drafting & Legal Transactions* Legal Research & Writing II* Law Elective	12 12 8 2 8 4 8-12	3 2 2 2 1 2-3

IFJ237 Bachelor of Engineering/Bachelor of Business -Manufacturing Systems and Management

Course Duration: 10 semesters full-time

Total Credit Points: 562

Standard Credit Points/Full-Time Semester: 56.2

Course Co-ordinator: Professor W. Wong

Special Course Requirement

All students shall have engaged in a total of at least fifteen weeks in employment approved by the Course Co-ordinator to satisfy the vacation practice requirements.

To gain approval for the employment, the student must submit a description of employment to the Course Co-ordinator - on the appropriate 'Industrial Experience Record' form completed by both the student and employer.

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester	1 (Autumn)		
MAB193	Engineering Mathematics I*	6	3
PHB132	Engineering Physics IA	6	3
CEB184	Engineering Mechanics I	7	3
CSB191	Introduction to Computing	4	2

* Full-year subject



MEB173	Manufacturing Practice	7	3
MNB154	Psychology	12	3
MNB153	Analysis & Methodology in Management	12	3
Somester 2	(Spring)		
Semester 2	• -		
MAB193	Engineering Mathematics I*	6	3 3 2 3 3 3 3
CEB185	Engineering Mechanics II	7	3
MEB111	Dynamics	7	3
CSB291	Introduction to FORTRAN	4	2
MEB133	Materials I	6	3
MNB252	Business Statistics	12	3
MNB253	Introductory Marketing	12	3
MEB270	Industrial Experience I		5 weeks
Semester 3	(Autumn)		
		1	7
MAB493	Engineering Mathematics II*	6	3
MEB121	Engineering Graphics	6	3 3 3 3 3
MEB230	Materials II	6	3
MEB250	Thermodynamics I	6	3
MEB313	Mechanics I	6	3
MNB151	Microeconomic Analysis	12	3
ACB180	Accounting for Managers	12	3
Semester 4	(Spring)		
MAB493		6	2
MEB101	Engineering Mathematics II* Design I	6 8	3
MEB101 MEB231	Materials III	° 6	3 3
MEB251 MEB251		6	c r
MNB251	Thermodynamics II Macroscopomia Applusia	12	3 3
MEB471	Macroeconomic Analysis	6	4
MNB451	Manufacturing Engineering I		4
	Government, Business & Law	12	•
MEB470	Industrial Experience II		5 weeks
Semester 5	(Autumn)		
EEB101	Circuits & Measurements	7	3
MEB361	Fluids I	6	ž
MEB381	Design II	6	3 3 3 3 3 3
MEB510	Noise & Vibrations	ž	ň
MEB571	Manufacturing Engineering II	6	3
MNB351	Organisational Analysis & Management	12	ž
MNB391	Marketing Management	12	3
Semester 6			
EEB202	Electromagnetics	6	3
MEB462	Fluids II	6	3
ACB230	Financial Management I	12	4
MEB670	Industrial Engineering I	6	3
MEB483	Design III	7	3
MEB671	Manufacturing Engineering III	7	3
MNB254	Personnel Management &		
	Industrial Relations	12	3
MEB600	Industrial Experience III		5 weeks
Semester 7	(Autumn)		
		0	2
INB270	Data Communication	9 7	3
EEB372	Sequential Logic	1	
MED771			2
MEB771	Industrial Engineering II	6	3
MEB463	Industrial Engineering II Tribology	6 6	3
_	Industrial Engineering II	6	3 3 3 3

* This subject extends over two semesters.



MNB392 MNB592	Consumer Behaviour Marketing Research	12 12	3 3
Semester 8	(Spring)		
EEB472 EEB520 MEB660 MEB974 MEB976 ACB336 MNB625	Microprocessors Control Engineering Fluid Power Design for Manufacturing II Computer Integrated Manufacturing International Finance Professional Marketing Practice	6 6 7 7 12 12	3 3 3 3 3 3 3 3 3
Semester 9	(Autumn)		
CSB324 MEB977	Artifical Intelligence Computer Control of Manufacturing	9	3
EEB591 MEB900 MNB411 MNB526	Systems Systems Programming Languages Manufacturing Project* Export Management International Marketing	7 6 12 12 12	3 3 3 3 3
Semester 1	0 (Spring)		
MEB978 MNB651 CSB325 MEB900 MNB691 MEB975	Manufacturing Systems Engineering Managerial Strategy Expert Systems Manufacturing Project* Strategic Marketing Design of Manufacturing Systems	7 12 9 12 12 7	3 3 3 3 3 3 3

IFJ251 Bachelor of Applied Science - Surveying/Bachelor of Business - Information Management

Course Duration: 9 semesters full-time

Total Credit Points: 447

Standard Credit Points/Full-Time Semester: 49.67

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
CSB100	Introduction to Computer Science	9	3
ISB113	Principles of Information Management	9	3
INB100	Practice I (INJ232)	12	4
ISB102	Representation of Information	9	3
MAB199	Survey Mathematics I	12	6
SVB111	Data Presentation I	6	3
Semester 2	(Spring)		
ACB181	Accounting Information Systems I	9	2
CSB110	Programming Principles	9	2 3
INB150	Practice II (INJ232)	12	4
CSB101	Computer Systems I	9	3
MAB495	Survey Mathematics II	12	6
MAB499	Basic Statistics for Surveyors	5	2

* This subject extends over two semesters.

Semester 3	(Autumn)		
ISB201	Information Systems		
	Analysis & Design I	9	3 3
ISB203	Advanced Data Base	9	3
INB202	Practice III (ISJ243)	12	4
SVB121	Land Surveying I	13	6
PHB170	Physics for Surveyors	12	6
Semester 4	(Spring)		
INB270	Data Communications	9	3
ISB214	The Information Resource	9	3
INB252	Practice IV (ISJ243)	12	4
SVB212	Data Presentation IIA	2	1
SVB226	Land Surveying II	13	6
SVB270	Land Administration I	6	3
Semester 5	(Autumn)		
CSB321	Graphics	9	3
SVB351	Land Studies I	12	6
SVB393	Land Surveying III	10	5 3 3
SVB573	Land Administration III	6	3
SVB311	Data Presentation III	5	3
SVB331	Observations & Adjustments I	4	2
Semester 6			
ISB318	Strategic Information Management	9	3
SVB430	Land Surveying IV	9	4
SVB442	Geodetic Computations	9	4
SVB343	Photogrammetry I	6	3
MNB413	Applied Cognitive Psychology	9	2
SVB431	Observations & Adjustments II	4	2
Semester 7	(Autumn)		
ISB301	Advanced Information Systems	9	3
CMB104	Professional Communication	9	3
MNB591	Economics of Information	9	3 3 2 6
SVB443	Photogrammetry II	11	
MAB795	Survey Mathematics III	6	3
Semester 8	(Spring)		
ISB314	Information Systems Management	9	3
SVB412	Cartographic Practice	5 2 5	3
SVB682	Seminar II	2	1
SVB473	Land Information Systems I	5	3 2 3 3
SVB688	Professional Practice A	4	2
SVB636	Land Surveying VI	6	3
IFB880	Project*	12	3
Semester 9			
ISB303	Office Information Systems	9	3
SVB535	Land Surveying V	5	3
SVB551	Land Valuation	6	3
SVB470	Land Administration II	4	2
SVB563	Land Information Systems II	4	3 3 2 2 3 3
IFB880	Project*	12	5
	Elective	9	5

Electives

Subject to prerequisites and timetable constraints, and subject to the prior approval of the Course Co-ordinator, any subject from either of the two degree programs drawn upon to

* This subject extends over two semesters.

form this double degree may be studied as an elective. The recommended electives which do not require such approval are:

		Credit Points	Contact Hrs/Wk
SVB645	Remote Sensing	5	3
SVB670	Land Administration V	5	3
ISB302	Data Base Management	9	3
ISB313	Expert Information Systems	9	3
ISB493	Business Computer Programming	9	3
ISB999	Special Topic - Business Computing	9	3

ENS200 New Opportunities in Tertiary Education (N.O.T.E.) Program

Course Duration: 2 semesters part-time

Standard Credit Points/Full-Time Semester: 48

A one year, part-time post-secondary studies program for women. The program provides bridging tuition to enable women who have the abilities - but who do not meet subject entry requirements, to undertake study in engineering, science or technology courses at QUT. The program is specially funded under the Commonwealth Department of Employment, Education and Training Equity Program.

Students are guided into a study program which takes account of their background and the course to which entry is sought. Subjects are selected from the following list designed specifically for the N.O.T.E. program. Students also undertake two or three subjects from the first year of the course to which entry is sought.

		Credit Points
CHS200	Chemistry	6
PHS021	Physics	6
ENS100	Engineering Skills	6
MAS090	Mathematics (a full year subject) OR	6 per sem
MAS091	Mathematics (a single semester subject) OR	12
MAS092	Mathematics A (a single semester subject)) 6
INB001	Computing Practice (N.O.T.E.) I	6
INB002	Computing Practice (N.O.T.E.) II	6

General Information

Prizes and Awards

Queensland University of Technology Medal

The Queensland University of Technology Medal is an award made in recognition of academic excellence. To qualify for consideration for the award, a student must have demonstrated academic excellence throughout an entire Bachelor's program and have, in minimum time, passed all subjects at a uniformly high standard. Particular reference is made to the final year results. The award is a rare honour and is not made in any year in which there is no candidate of sufficient merit. The number of medals which may be



awarded in a faculty each year ranges from one to three, depending on the number of graduates in the faculty for the year.

Queensland University of Technology Awards "With Distinction"

Awards "with distinction" may be made annually for distinguished academic performance. The awards are made to graduates of associate diploma, diploma, degree and graduate diploma courses, except for those courses where degrees may be awarded with honours.

Selection for the award is based on the student's academic performance in the course. The level of performance required for the award is selected so that on average no more than 20 per cent of the graduates of a course receive the award "with distinction".

Owen J. Wordsworth Memorial Scholarship

The Owen J. Wordsworth Scholarship is available to full-time students in Masters degree programs at QUT. Full details concerning the benefits of the scholarship, application procedures, selection criteria and other conditions are available from the Registrar.

Applications for the award must be lodged with the Registrar by October 31 each year.



FACULTY OF THE BUILT ENVIRONMENT

THE BUILT ENVIRONMENT



FACULTY OF THE BUILT ENVIRONMENT

Courses Offered

- **BTN184 Master of Applied Science by Research & Thesis (see** page 16)
- BTN233 Master of Applied Science Built Environment
- ARM142 Graduate Diploma in Industrial Design
- ARM256 Graduate Diploma in Interior Design
- BGM228 Graduate Diploma in Building Project Management
- LPM264 Graduate Diploma in Landscape Architecture Qualifying Course
- LPM265 Graduate Diploma in Landscape Architecture
- LPM266 Graduate Diploma in Urban and Regional Planning Qualifying Course
- LPM267 Graduate Diploma in Urban and Regional Planning
- ARJ192 Bachelor of Architecture
- BGJ200 Bachelor of Applied Science Quantity Surveying
- BGJ201 Bachelor of Applied Science Construction Management
- BGJ258 Bachelor of Applied Science Property Economics
- **BTJ227 Bachelor of Applied Science Built Environment**
- *BTL178 Associate Diploma Built Environment Technician

The Faculty

The Faculty of the Built Environment is dedicated to providing the highest quality teaching, while maintaining close contact with industry.

Areas of teaching within the Faculty encompass architecture, industrial design, interior design, landscape architecture, urban and regional planning, construction management, quantity surveying, and property economics.

The Faculty comprises three schools/departments: the Charles Fulton School of Architecture and Industrial Design, the School of Construction Management, and the Department of Planning and Landscape Architecture.

The Faculty is interdisciplinary - that is, it pays attention to the overlaps and common ground between the different professions, as well as to the special skills which each requires.

*Being phased out. No intake in 1990.

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Course Structures

BTN233 Master of Applied Science - Built Environment

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

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Gordon Holden

Entry Requirements

Applicants for admission to candidature for a degree of Master:

- (a) shall hold a degree or postgraduate qualification leading to eligibility for corporate membership of the professional institutes in Architecture or Landscape Architecture or Planning; OR
- (b) shall hold qualifications approved by the Built Environment Graduate Studies Standing Committee on the recommendation of the Course Co-ordinator as equivalent to the requirements set out in paragraph (a) above; AND
- (c) shall normally have at least two years of appropriate work experience.

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

Provisional Entry

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

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

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

MASTER C)F APPLIED SCIENCE BUILT ENVIRONMENT	SUBJECT
BTN601	Prescriptive Subject for Urban Design	(3 hrs)

GRADUATE DIPLOMA IN LANDSCAPE ARCHITECTURE SUBJECTS

GRADUATE DIPLOMA IN URBAN AND REGIONAL PLANNING SUBJECTS

LPP403	Introduction to Planning Processes	(2 hrs)
LPP404	Introduction to Theories of Planning	(1 hr)
LPP407	Urban Policy Processes	(1 hr)
LPP504	Urban Land Development	(1 hr)
LPP560	History of Town Planning	(1 hr)
LPP561	Introduction to Urban Design	(2 hrs)



URBAN DESIGN STRAND

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
BTN101	Urban Design Analysis Studio	9	3
BTN103	Urban Design Conjecture Studio	9	3
		3	
BTN201	Urban Design History of Urban Systems	3	1
BTN202 BTN303	The Urban Environment & Behaviour I The Transport & Movement Systems in	-	1
D/D) 1004	Urban Design	3	1
BTN304	Urban Climate & Services	3	1
BTN402	Law & Legislation in Urban Design	3	1
BTN601 BTN701	Prescriptive Subject for Urban Design Urban Design Research Elective I	9 6	3 2
Semester 2	(Spring)		
BTN102	Urban Design Context Studio	9	3
BTN104	Urban Design Guidelines Studio	9	3
BTN203	The Urban Environment & Behaviour II	3	1
BTN305	Tourism & Recreation in Urban Design	ž	1
BTN301	Conservation & Reuse in Urban Design	3 3 3	ĺ
BTN302		2	
	The Urban Landscape	6	1
BTN401	Urban Design Computer Applications	-	2
BTN403	Urban Design Guidelines & Developmen Control	τ 3	1
BTN404	Urban Design Feasibility & Management		1
BTN702	Urban Design Research Elective II	15	3
Semester 3			
BTN105	Urban Design Field Studies Studio	9	3
BTN204	Urban Design Theory & Criticism	6	2
BTN501	Research Dissertation	24	2 7
BTN501			
BTN501	Research Dissertation Course Structure	24 Credit	7 Contact
BTN501 Part-Time Semester 1	Research Dissertation Course Structure (Autumn)	24 Credit Points	7 Contact Hrs/Wk
BTN501 Part-Time Semester 1 BTN101	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio	24 Credit Points 9	7 Contact Hrs/Wk 3
BTN501 Part-Time Semester 1 BTN101 BTN201	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems	24 Credit Points 9 3	7 Contact Hrs/Wk 3 1
BTN501 Part-Time Semester 1 BTN101	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio	24 Credit Points 9	7 Contact Hrs/Wk 3
BTN501 Part-Time Semester 1 BTN101 BTN201 BTN202	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems The Urban Environment & Behaviour I Prescriptive Subject for Urban Design	24 Credit Points 9 3 3	7 Contact Hrs/Wk 3 1 1
BTN501 Part-Time Semester 1 BTN101 BTN201 BTN202 BTN601	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems The Urban Environment & Behaviour I Prescriptive Subject for Urban Design (Spring)	24 Credit Points 9 3 3 9	7 Contact Hrs/Wk 3 1 1 3
BTN501 Part-Time Semester 1 BTN101 BTN201 BTN202 BTN601 Semester 2	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems The Urban Environment & Behaviour I Prescriptive Subject for Urban Design (Spring) Urban Design Context Studio	24 Credit Points 9 3 9 9 9	7 Contact Hrs/Wk 3 1 1
BTN501 Part-Time Semester 1 BTN101 BTN201 BTN202 BTN601 Semester 2 BTN102 BTN203	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems The Urban Environment & Behaviour I Prescriptive Subject for Urban Design (Spring) Urban Design Context Studio The Urban Environment & Behaviour II	24 Credit Points 9 3 9 9 9	7 Contact Hrs/Wk 3 1 3 3 3 1
BTN501 Part-Time Semester 1 BTN101 BTN201 BTN202 BTN601 Semester 2 BTN102 BTN203 BTN203 BTN203	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems The Urban Environment & Behaviour I Prescriptive Subject for Urban Design (Spring) Urban Design Context Studio The Urban Environment & Behaviour II Conservation & Reuse in Urban Design	24 Credit Points 9 3 9 9 9	7 Contact Hrs/Wk 3 1 1 3 3 1 1 3
BTN501 Part-Time Semester 1 BTN101 BTN201 BTN202 BTN601 Semester 2 BTN102 BTN203	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems The Urban Environment & Behaviour I Prescriptive Subject for Urban Design (Spring) Urban Design Context Studio The Urban Environment & Behaviour II	24 Credit Points 9 3 3 9	7 Contact Hrs/Wk 3 1 3 3 3 1
BTN501 Part-Time Semester 1 BTN101 BTN201 BTN202 BTN601 Semester 2 BTN102 BTN102 BTN203 BTN301 BTN302	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems The Urban Environment & Behaviour I Prescriptive Subject for Urban Design (Spring) Urban Design Context Studio The Urban Environment & Behaviour II Conservation & Reuse in Urban Design The Urban Landscape Urban Design Computer Applications	24 Credit Points 9 3 3 9 9 9 3 3 3 3 3 3	7 Contact Hrs/Wk 3 1 1 3 3 1 1 1 1
BTN501 Part-Time Semester 1 BTN101 BTN201 BTN202 BTN601 Semester 2 BTN102 BTN102 BTN102 BTN203 BTN301 BTN302 BTN401	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems The Urban Environment & Behaviour I Prescriptive Subject for Urban Design (Spring) Urban Design Context Studio The Urban Environment & Behaviour II Conservation & Reuse in Urban Design The Urban Landscape Urban Design Computer Applications (Autumn)	24 Credit Points 9 3 3 9 9 9 3 3 3 3 3 3	7 Contact Hrs/Wk 3 1 1 3 3 1 1 1 1
BTN501 Part-Time Semester 1 BTN101 BTN201 BTN202 BTN601 Semester 2 BTN102 BTN102 BTN102 BTN301 BTN302 BTN301 SEMester 3	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems The Urban Environment & Behaviour I Prescriptive Subject for Urban Design (Spring) Urban Design Context Studio The Urban Environment & Behaviour II Conservation & Reuse in Urban Design The Urban Landscape Urban Design Computer Applications (Autumn) Urban Design Conjecture Studio Transport & Movement Systems in	24 Credit Points 9 3 3 9 9 9 3 3 3 6 9 9 9 3 3 6 9	7 Contact Hrs/Wk 3 1 1 3 3 1 1 1 2 3
BTN501 Part-Time Semester 1 BTN101 BTN201 BTN202 BTN601 Semester 2 BTN102 BTN203 BTN301 BTN302 BTN301 Semester 3 BTN103 BTN103 BTN103 BTN303	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems The Urban Environment & Behaviour I Prescriptive Subject for Urban Design (Spring) Urban Design Context Studio The Urban Environment & Behaviour II Conservation & Reuse in Urban Design The Urban Landscape Urban Design Computer Applications (Autumn) Urban Design Conjecture Studio Transport & Movement Systems in Urban Design	24 Credit Points 9 3 3 9 9 9 3 3 3 6 9 9 9 3 3 6 9	7 Contact Hrs/Wk 3 1 1 3 3 1 1 1 2 3 1
BTN501 Part-Time Semester 1 BTN101 BTN201 BTN202 BTN601 Semester 2 BTN102 BTN203 BTN301 BTN302 BTN401 Semester 3 BTN103 BTN103 BTN303	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems The Urban Environment & Behaviour I Prescriptive Subject for Urban Design (Spring) Urban Design Context Studio The Urban Environment & Behaviour II Conservation & Reuse in Urban Design The Urban Landscape Urban Design Computer Applications (Autumn) Urban Design Conjecture Studio Transport & Movement Systems in Urban Design Urban Climate & Services	24 Credit Points 9 3 3 9 9 9 3 3 3 6 9 9 9 3 3 6 9	7 Contact Hrs/Wk 3 1 1 3 3 1 1 2 3 1 1 2 3 1 1
BTN501 Part-Time Semester 1 BTN101 BTN201 BTN202 BTN601 Semester 2 BTN102 BTN203 BTN301 BTN302 BTN401 Semester 3 BTN103 BTN103 BTN103 BTN304 BTN304 BTN304 BTN304	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems The Urban Environment & Behaviour I Prescriptive Subject for Urban Design (Spring) Urban Design Context Studio The Urban Environment & Behaviour II Conservation & Reuse in Urban Design The Urban Landscape Urban Design Computer Applications (Autumn) Urban Design Conjecture Studio Transport & Movement Systems in Urban Design Urban Climate & Services Law & Legislation in Urban Design	24 Credit Points 9 3 3 9 9 9 3 3 3 6 9 9 9 3 3 6 9	7 Contact Hrs/Wk 3 1 1 3 3 1 1 1 2 3 1 1 1 1
BTN501 Part-Time Semester 1 BTN101 BTN201 BTN202 BTN601 Semester 2 BTN102 BTN203 BTN301 BTN302 BTN401 Semester 3 BTN103 BTN103 BTN303	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems The Urban Environment & Behaviour I Prescriptive Subject for Urban Design (Spring) Urban Design Context Studio The Urban Environment & Behaviour II Conservation & Reuse in Urban Design The Urban Landscape Urban Design Computer Applications (Autumn) Urban Design Conjecture Studio Transport & Movement Systems in Urban Design Urban Climate & Services	24 Credit Points 9 3 3 9 9 9 9 3 3 3 6	7 Contact Hrs/Wk 3 1 1 3 3 1 1 2 3 1 1 2 3 1 1
BTN501 Part-Time Semester 1 BTN101 BTN201 BTN202 BTN601 Semester 2 BTN102 BTN102 BTN301 BTN302 BTN401 Semester 3 BTN103 BTN103 BTN304 BTN304 BTN304 BTN304 BTN304 BTN204 Semester 4	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems The Urban Environment & Behaviour I Prescriptive Subject for Urban Design (Spring) Urban Design Context Studio The Urban Environment & Behaviour II Conservation & Reuse in Urban Design The Urban Landscape Urban Design Computer Applications (Autumn) Urban Design Conjecture Studio Transport & Movement Systems in Urban Design Urban Climate & Services Law & Legislation in Urban Design Urban Design Theory & Criticism (Spring)	24 Credit Points 9 3 3 9 9 3 3 6 9 3 3 6 9 3 3 6	7 Contact Hrs/Wk 3 1 1 3 3 1 1 1 2 3 1 1 1 2
BTN501 Part-Time Semester 1 BTN101 BTN201 BTN202 BTN601 Semester 2 BTN102 BTN102 BTN301 BTN302 BTN301 Semester 3 BTN103 BTN103 BTN103 BTN304 BTN304 BTN304	Research Dissertation Course Structure (Autumn) Urban Design Analysis Studio Urban Design History of Urban Systems The Urban Environment & Behaviour I Prescriptive Subject for Urban Design (Spring) Urban Design Context Studio The Urban Environment & Behaviour II Conservation & Reuse in Urban Design The Urban Landscape Urban Design Computer Applications (Autumn) Urban Design Conjecture Studio Transport & Movement Systems in Urban Design Urban Climate & Services Law & Legislation in Urban Design Urban Design Theory & Criticism	24 Credit Points 9 3 3 9 9 9 3 3 3 6 9 9 9 3 3 6 9	7 Contact Hrs/Wk 3 1 1 3 3 1 1 1 2 3 1 1 1 1

BTN403	Urban Design Guidelines & Development Control	3	1
BTN404	Urban Design Feasibilities &	J	I
	Management	3	1
BTN701	Urban Design Research Elective I	6	1
Semester 5	(Autumn)		
BTN105	Urban Design Field Studies Studio	9	3
BTN702	Urban Design Research Elective II	15	3
Semester 6	(Spring)		
BTN501	Research Dissertation	24	7

ARM142 Graduate Diploma in Industrial Design

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Ms Vesna Popovic

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



ARP642	Case Studies	4	2
Semester 4	(Spring)		
ARP675	Industrial Design Research II	20	8
ARP652	Design Management & Decision Theory	2	1
ARP63	Professional Practice	2	1

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

ARM256 Graduate Diploma in Interior Design

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Stuart Arden

Semester I (Autumn)ARP502Environmental Communications135ARP503Workplace Design125ARP504Professional Practice & Management for Interior Designers I114ARP505Professional Practice & Management for Interior Designers II42Semester 2 (Spring)ARP601Film, TV & Design for Theatre166ARP602Conservation of Historic Interiors166ARP603Historic Technologies83ARP600Building Evaluation & Brief Development83Part-Time Course StructureCredit Management for Interior Designers I11ARP502Environmental Communications135ARP504Professional Practice & Management for Interior Designers I114Semester 1 (Autumn)ARP502 ARP504Environmental Communications135ARP503Workplace Design1255ARP505Professional Practice & Management for Interior Designers II42ARP503Workplace Design125ARP505Professional Practice & Management for Interior Designers II42ARP505Professional Practice & Management for Interior Designers II42ARP600Building Evaluation & Brief Development833	Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
ARP503Workplace Design125ARP504Professional Practice & Management for Interior Designers I114ARP501Introduction to Facilities Management82ARP505Professional Practice & Management for Interior Designers II42Semester 2 (Spring)ARP601Film, TV & Design for Theatre166ARP602Conservation of Historic Interiors166ARP603Historic Technologies83ARP600Building Evaluation & Brief Development83Part-Time Course StructureCredit PointsContact Hrs/WkSemester 1 (Autumn) ARP502Environmental Communications135ARP504Professional Practice & 	Semester 1	(Autumn)		
Management for Interior Designers I114ARP501Introduction to Facilities Management82ARP505Professional Practice & Management for Interior Designers II42Semester 2 (Spring)ARP601Film, TV & Design for Theatre166ARP602Conservation of Historic Interiors166ARP603Historic Technologies83ARP600Building Evaluation & Brief Development83Part-Time Course StructureCredit PointsContact Hrs/WkSemester 1 (Autumn) ARP502135ARP504Professional Practice & Management for Interior Designers I114Semester 2 (Spring)125ARP503Workplace Design125ARP505Professional Practice & Management for Interior Designers II42Semester 333534235ARP503Workplace Design4255Professional Practice & Management for Interior Designers II44255ARP505Professional Practice & Management for Interior Designers II44255ARP600Building Evaluation & Brief Development83	ARP503	Workplace Design		5 5
Management for Interior Designers II42Semester 2 (Spring)ARP601Film, TV & Design for Theatre166ARP602Conservation of Historic Interiors166ARP603Historic Technologies83ARP600Building Evaluation & Brief Development83Part-Time Course StructureCredit PointsContact Hrs/WkSemester 1 (Autumn)83ARP502Environmental Communications135ARP504Professional Practice & 	ARP501	Management for Interior Designers I Introduction to Facilities Management		
ARP601Film, TV & Design for Theatre166ARP602Conservation of Historic Interiors166ARP603Historic Technologies83ARP600Building Evaluation & Brief Development83Part-Time Course StructureCredit PointsContact Hrs/WkSemester 1 (Autumn)ARP502Environmental Communications135ARP504Professional Practice & 	/HX 505		4	2
ARP601Film, TV & Design for Theatre166ARP602Conservation of Historic Interiors166ARP603Historic Technologies83ARP600Building Evaluation & Brief Development83Part-Time Course StructureCredit PointsContact Hrs/WkSemester 1 (Autumn)ARP502Environmental Communications135ARP504Professional Practice & Management for Interior Designers I114Semester 2 (Spring)ARP503Workplace Design Professional Practice & Management for Interior Designers II42ARP600Building Evaluation & Brief Development83	Semester 2	(Spring)		
Development83Part-Time Course StructureCredit PointsContact Hrs/WkSemester 1 (Autumn)ARP502 Professional Practice & Management for Interior Designers I135ARP504Professional Practice & Management for Interior Designers I114Semester 2 (Spring)125ARP503Workplace Design Management for Interior Designers II125ARP505Professional Practice & Management for Interior Designers II42ARP600Building Evaluation & Brief Development83	ARP601 ARP602 ARP603	Film, TV & Design for Theatre Conservation of Historic Interiors Historic Technologies	16	6
PointsPointsHrs/WkSemester 1 (Autumn)ARP502Environmental CommunicationsARP504Professional Practice & Management for Interior Designers I114Semester 2 (Spring)ARP503Workplace DesignARP505Professional Practice & Management for Interior Designers II42ARP600Building Evaluation & Brief Development83	7111 000		8	3
ARP502 ARP504Environmental Communications Professional Practice & Management for Interior Designers I135Semester 2 (Spring)III4ARP503 				
ARP504Professional Practice & Management for Interior Designers I114Semester 2 (Spring)Image: Semester 2 (Spring)ARP503Workplace Design125ARP505Professional Practice & Management for Interior Designers II42ARP600Building Evaluation & Brief Development83	Part-Time	Course Structure		
Semester 2 (Spring)12ARP503Workplace Design12ARP505Professional Practice & Management for Interior Designers II4ARP600Building Evaluation & Brief Development8				
ARP503Workplace Design125ARP505Professional Practice & Management for Interior Designers II42ARP600Building Evaluation & Brief Development83	Semester 1 ARP502	(Autumn) Environmental Communications	Points	Hrs/Wk
ARP505Professional Practice & Management for Interior Designers II42ARP600Building Evaluation & Brief Development83	Semester 1 ARP502	(Autumn) Environmental Communications Professional Practice &	Points	Hrs/Wk 5
ARP600 Building Evaluation & Brief Development 8 3	Semester 1 ARP502 ARP504	(Autumn) Environmental Communications Professional Practice & Management for Interior Designers I	Points	Hrs/Wk 5
Development 8 3	Semester 1 ARP502 ARP504 Semester 2 ARP503	(Autumn) Environmental Communications Professional Practice & Management for Interior Designers I (Spring) Workplace Design Professional Practice &	Points 13 11	Hrs/Wk 5 4
	Semester 1 ARP502 ARP504 Semester 2 ARP503 ARP505	(Autumn) Environmental Communications Professional Practice & Management for Interior Designers I (Spring) Workplace Design Professional Practice & Management for Interior Designers II	Points 13 11 12	Hrs/Wk 5 4 5
Semester 3 (Autumn)	Semester 1 ARP502 ARP504 Semester 2 ARP503 ARP505	(Autumn) Environmental Communications Professional Practice & Management for Interior Designers I (Spring) Workplace Design Professional Practice & Management for Interior Designers II Building Evaluation & Brief	Points 13 11 12 4	Hrs/Wk 5 4 5 2
ARP501Introduction to Facilities Management82ARP601Film, TV & Design for Theatre166	Semester 1 ARP502 ARP504 Semester 2 ARP503 ARP505 ARP600 Semester 3	(Autumn) Environmental Communications Professional Practice & Management for Interior Designers I (Spring) Workplace Design Professional Practice & Management for Interior Designers II Building Evaluation & Brief Development (Autumn)	Points 13 11 12 4 8	Hrs/Wk 5 4 5 2 3



Semester 4 (Spring)				
ARP602	Conservation of Historic Interiors	16	6	
ARP603	Historic Technologies	8	3	

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

BGM228 Graduate Diploma in Building Project Management with Strands in Building, and Property Development (not available in 1990)

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Andrew Leicester

BUILDING STRAND

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
BGP431	Project Management I	6	2
BGP434	Time Management I	6	2
BGP417	Design Management	6	2
BGP429-1	Cost Management & Economics	6	2 2 2 3 2 2 2
BGP430-1	Current Issues	9 6 6 3	3
BGP426-1	Project Development	6	2
BGP433-1	Project Management Law	6	2
	Elective	3	1
Semester 2	(Spring)		
BGP432	Project Management II	6	2
BGP414	Time Management II	6	2
BGP429-2	Cost Management & Economics		2
BGP437	Field Trip	6	2
BGP430-2	Current Issues	9	3
BGP426-2	Project Development	6	2
BGP433-2	Project Management Law	6 9 6 6 3	2 2 2 3 2 2 2
	Elective	3	I
Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
BGP431	Project Management I	6 6	2
BGP434	Time Management I	6	2 2 2 2
BGP417	Design Management	6 6	2
BGP429-1	Cost Management & Economics	6	2
Semester 2	(Spring)		
BGP432	Project Management II	6	2
BGP414	Time Management II	6	2
BGP429-2	Cost Management & Economics	6 6 6	2 2 2 2
BGP437	Field Trip	6	2



Semester 3	(Autumn)		
BGP430-1	Current Issues	9	3
BGP426-1	Project Development	6	3 2 2
BGP433-1	Project Management Law	6	2
	Elective	3	1
Semester 4			
BGP430-2	Current Issues	9	3 2 2
BGP426-2	Project Development	6	2
BGP433-2	Project Management Law Elective	6 3	2 1
	DEVELOPMENT STRAND		
Full-Time (Course Structure	Credit	Contact
		Points	Hrs/Wk
Semester 1	(Autumn)		
BGP431	Project Management I	6	2 2 2 3 2 3
BGP412-1	Property Maintenance	6	2
LPP325	Urban Design	6	2
BGP439	Property Management	6	2
BGP430-1	Current Issues	9	3
BGP438	Real Estate Investment & Economics	6	2
	Elective	9	3
Semester 2			
BGP432	Project Management II	6	2
BGP412-2	Property Maintenance	6	2
LPP323	Urban Land Development	6	2
BGP437	Field Trip	6	2
BGP430-2	Current Issues	9	3
BGP422	Advanced Valuations Elective	6 9	2 2 2 3 2 3 3
Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
BGP431	Project Management I	6	2
BGP412-1	Property Maintenance	ő	2 2 2 2
LPP325	Urban Design	6	2
BGP439	Property Management	6	$\overline{2}$
Semester 2	(Spring)		
BGP432	Project Management II	6	2
BGP412-2	Property Maintenance	6	2 2 2
LPP323	Urban Land Development	6	2
BGP437	Field Trip	6	2
Semester 3	(Autumn)		
BGP430-1	Current Issues	9	3
BGP438	Real Estate Investment & Economics	6	3 2 3
	Elective	9	3
Semester 4			
BGP430-2	Current Issues	9	3
BGP422	Advanced Valuations	6	3 2 3
	Elective	9	3



LPM264 Graduate Diploma in Landscape Architecture Qualifying Course

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

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr George Williams

Students may be granted exemptions from subjects within the course depending on their background.

Successful completion of the qualifying course will entitle the student to admission to the Graduate Diploma in Landscape Architecture.

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
LPP501	Theory of Site Planning	2	1
LPP506	User & Character Design Studies	10	3 2 2 2
LPP508	Introduction to Practice	4	2
LPP511	Environmental Psychology	4	2
LPP512	Plant Recognition & Requirements	4	2
LPP516	Visual Communication - Graphics	6 2 2 4 2 2	3
LPP517	Oral Communication Skills	2	1
LPP518 LPP519	Report Preparation	2	1 2
LPP519 LPP521	Computer Aided Data Analysis	4	2
LPP521 LPP522	Map & Airphoto Interpretation Measurement of Sites	2	1
LPP523	Landscape Construction	6	3
LII 525	Landscape Construction	0	5
Semester 2	(Spring)		
LPP502	Site Planning Techniques	2	1
LPP503	History of Landscape Design	2 2 3 3	1
LPP504	Planting Design	3	1
LPP505	Conservation Theory	3	1
LPP507	Site Planning	10	3
LPP509	Quantities & Costs	2 2	1
LPP510	Introduction to Law	2	1
LPP513	Applied Natural Science	4	2 3 2 2 3
LPP514	Applied Environmental Science	6	3
LPP515	Land Use Generation	4	2
LPP520 LPP524	Landscape Graphics	4 6	2
LFF524	Land Grading	0	3
Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
		2 01110	
Semester 1	· · · · · · · · · · · · · · · · · · ·		
LPP508	Introduction to Practice	4	2 3
LPP516	Visual Communication - Graphics	6 2 2 2 6	
LPP518	Report Preparation	2	1
LPP521	Map & Airphoto Interpretation	2	1
LPP522	Measurement of Sites	2	l
LPP523	Landscape Construction	0	3
Semester 2	(Spring)		
LPP503	History of Landscape Design	2	1
LPP513	Applied Natural Science	4	
LPP514	Applied Environmental Science	6	2 3 2
LPP520	Landscape Graphics	4	2

LPP524	Land Grading	6	3
Semester 3	(Autumn)		
LPP501	Theory of Site Planning	2	1
LPP506	User & Character Design Studies	10	3
LPP511	Environmental Psychology	4	2
LPP512	Plant Recognition & Requirements	4	2
LPP517	Oral Communication Skills	2	1
LPP519	Computer Aided Data Analysis	4	2
Semester 4	(Spring)		
LPP502	Site Planning Techniques	2	1
LPP504	Planting Design	3	1
LPP505	Conservation Theory	3	1
LPP507	Site Planning	10	3
LPP509	Quantities & Costs	2	1
LPP510	Introduction to Law	2	1
LPP515	Land Use Generation	4	2

LPM265 Graduate Diploma in Landscape Architecture

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr George Williams

Entry Requirements

Satisfactory completion of BAppSc - Built Environment, Landscape Architecture strand or the GradDip LandArch Qualifying Course.

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
LPP202	Residential Landscape Design	9	3 3
LPP203	Urban Landscape Design	9	3
LPP207	Forum/Workshop B	2 3	1
LPP209	Ecosystems	3	1
LPP211	Landscape Management B	10	4
LPP212	Advanced Graphics	4	2 3
LPP213	Advanced Landscape Construction	9	3
LPP215	Department Field Trip	2	-
Semester 2	(Spring)		
LPP201	Cultural Values	6	1
LPP204	Landscape Planning	10	4
LPP205	Landscape Design	11	3
LPP206	Forum/Workshop A	2	1
LPP208	Landscape Practice	6	2 4
LPP210	Landscape Management A	9	
LPP214	Landscape Engineering	4	2





Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
LPP202 LPP209 LPP212	Residential Landscape Design Ecosystems Advanced Graphics	9 3 4	3 1 2 3
LPP213	Advanced Landscape Construction	9	3
Semester 2			
LPP204	Landscape Planning	10	4
LPP206	Forum/Workshop A	2	1
LPP210	Landscape Management A	9	4 2
LPP214	Landscape Engineering	4	2
Semester 3	(Autumn)		
LPP203	Urban Landscape Design	9	3
LPP207	Forum Workshop B	2	1
LPP211	Landscape Management B	10	4
LPP215	Department Field Trip	2	-
Semester 4	(Spring)		
LPP201	Cultural Values	6	1
LPP205	Landscape Design	11	3 2
LPP208	Landscape Practice	6	2

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

LPM266 Graduate Diploma in Urban and Regional Planning - Qualifying Course

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

Standard Credit Points/Full-Time Semester: 35

Course Co-ordinator: Dr Brian Hudson

Students may be granted exemptions from subjects within the course depending on their background.

Successful completion of the qualifying course will entitle the student to admission to the Graduate Diploma in Urban and Regional Planning.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester I	(Autumn)		
LPP551	Land Use Generation	4	2
LPP552	Introduction to Graphies	4	2
LPP553	Site Planning Data & Techniques	2	1
LPP554	Site Planning Practice	12	3
LPP555	Theory of Site Planning	2	I
LPP556	Professional Communication	4	2
LPP562	Economics of Town Planning	4	2
LPP563	Introduction to Computers	4	2
LPP564	Introduction to Maps & Air Photos	2	1



Semester 2 LPP565 LPP557 LPP558 LPP559 LPP560 LPP561 LPP566	(Spring) Urban Land Development Transport Planning Population & Urban Studies Applied Natural Science History of Planning Introduction to Urban Design Housing & Community Services	2 4 6 4 2 10 4	1 2 3 2 1 2 2
Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
LPP551 LPP552 LPP553 LPP554 LPP555 LPP556	Land Use Generation Introduction to Graphics Site Planning Data & Techniques Site Planning Practice Theory of Site Planning Professional Communication	4 2 12 2 4	2 1 3 1 2
Semester 2	(Spring)		
LPP557 LPP558 LPP559 LPP560 LPP561	Transport Planning Population & Urban Studies Applied Natural Science History of Planning Introduction to Urban Design	4 6 4 2 10	2 3 2 1 2
Semester 3	(Autumn)		
LPP562 LPP563 LPP564	Economics of Town Planning Introduction to Computers Introduction to Maps & Air Photos	4 4 2	2 2 1
Semester 4 LPP565 LPP566	(Spring) Urban Land Development Housing & Community Services	2 4	1 2

LPM267 Graduate Diploma in Urban and Regional Planning

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Dr Brian Hudson

Entry Requirements

Satisfactory completion of BAppSc - Built Environment, Urban and Regional Planning Strand, or the Grad Dip Urban & Regional Planning Qualifying course.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester	l (Autumn)		
LPP401	Rural Land Use & Planning	3	1
LPP403	Introduction to Planning Processes	6	2
LPP404	Introduction to Theories of Planning	6	2



LPP407 LPP408 LPP411 LPP413 LPP414 LPP420	Urban Policy Processes Social & Political Structure Planning Practice & Law (Urban) Advanced Urban Structure Resource Management Departmental Field Trip	3 3 14 3 6 4	2 i 4 1 2
Semester 2	(Spring)		
LPP402	Social Planning	4	1
LPP405	Procedural Planning Theory	4	1
LPP406	Professional Procedures & Ethics	4	1
LPP412	Planning Practice & Law (Regional & Strategic)	14	4
LPP415	Research Methods & Individual Project	10	2
LPP416	Urban Policy Implementation	4	1
LPP418	Computer Applications in Planning	8	2
Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
LPP403	Introduction to Planning Processes	6	2
LPP411	Planning Practice & Law (Urban)	14	2 4
LPP404	Introduction to Theories of Planning	6	2
LPP408	Social & Political Structure	3	1
Semester 2	(Spring)		
LPP412	Planning Practice & Law		
	(Regional & Strategic)	14	4
LPP416	Urban Policy Implementation	4	1
LPP418	Computer Applications in Planning	8	2
Semester 3	(Autumn)		
LPP401	Rural Land Use & Planning	3	1
LPP407	Urban Policy Processes	3 3 3 6	2
LPP413	Advanced Urban Structure	3	1
LPP414 LPP420	Resource Management	6 4	2
LPP420	Departmental Field Trip	4	
Semester 4	(Spring)		
LPP402	Social Planning	4	I
LPP405	Procedural Planning Theory	4	1
LPP406	Professional Procedures & Ethics	4	1
LPP415	Research Methods & Individual Project	10	2

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

ARJ192 Bachelor of Architecture

Course Duration: 12 semesters part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Assoc. Prof. Bill Lim

Special Course Requirements

- (a) Except as provided in (b) below, a student must be engaged in approved employment in one full academic year for four of the six years of the course, including one of the two final years. Approved employment is defined as working under the direction of an architect or, for a period not exceeding six months, gaining experience in a related field approved by the Head of School. Students should work under the same employer for at least six months.
- (b) A student who is admitted with advanced standing and who is granted exemption from all subjects in the first three years of the course may be granted exemption from the subject ARB791 Approved Employment I.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
ARB191 ARB197 ARB189 ARB193 ARB195	The Human Environment History of the Built Environment I Writing for Designers I Design I Technology I	4 2 4 10 4	2 1 2 5 2
Semester 2	(Spring)		
ARB192 ARB198 ARB190 ARB194 ARB196	The Human Environment II History of the Built Environment II Writing for Designers II Design II Technology II	4 2 4 10 4	2 1 2 5 2
Semester 3	(Autumn)		
ARB291 ARB293 ARB297 ARB295 ARB289 ARB289 ARB299	The Human Environment III Design III Principles of Structures I Building Construction I Design Science I Introduction to Computing I	4 10 2 4 2 2	2 5 1 2 1 1
Semester 4	(Spring)		
ARB292 ARB294 ARB296 ARB288 ARB298 ARB298 ARB290	The Human Environment IV Design IV Building Construction II Design Science II Principles of Structures II Introduction to Computing II	4 8 4 2 4 2	2 4 2 1 2 1
Semester 5	(Autumn)		
ARB393 ARB391 ARB395 ARB397 ARB389 ARB387	Design V Building Services I Building Construction III Principles of Structures III Design Science III Environmental Impact Studies	10 4 2 4 2 2	5 2 1 2 1 1
Semester 6	(Spring)		
ARB386 ARB394 ARB392 ARB396 ARB398 ARB388	Law of the Built Environment Design VI Building Services II Building Construction IV Principles of Structures IV Design Science IV	4 8 4 2 4 2	2 4 2 1 2 1



Semester 7	(Autumn)		
ARB491-1	History of Architecture & Art III	2	1
ARB493-1	Design VII	10	5 2 4
ARB497-1	Advanced Technology	4	2
ARB495-1	Professional Studies I	8	4
Semester 8	(Spring)		
ARB491-2	History of Architecture & Art III	2	1
ARB493-2	Design VII	10	5
ARB497-2	Advanced Technology	4	5 2 4
ARB495-2	Professional Studies I	8	4
Semester 9	(Autumn)		
ARB591-1	History of Architecture & Art IV	2	1
ARB597-1	Elective I	4	2
ARB593-1	Design VIII	10	2 5
ARB595-1	Professional Studies II	8	4
Semester 1	0 (Spring)		
ARB591-2	History of Architecture & Art IV	2	1
ARB597-2	Elective I	2 4	2
ARB593-2	Design VIII	10	2 5 4
ARB595-2	Professional Studies II	8	4
Semester 1	1 (Autumn)		
ARB697-1	Elective II	2	1
ARB693	Design IX	18	9
ARB695-1	Professional Studies III	4	2
Semester 1	2 (Spring)		
ARB697-2	· · ·	20	7
	LACCHICH	20	

On completion of the course and one year's postgraduate practical experience a graduate will be eligible for associate membership of the Royal Australian Institute of Architects and will be eligible to sit for the registration examination conducted by the Board of Architects of Queensland.

BGJ200 Bachelor of Applied Science - Quantity Surveying

Course Duratiou: 12 semesters part-time OR 4 semesters full-time plus 4 semesters part-time

Total Credit Points: 281

Staudard Credit Points/Fnll-Time Semester: 46.83

Course Co-ordinator: Mr Gary Thomas

Special Course Requirement

A student registered in the part-time study program must be employed in a Building or Quantity Surveying Office under the direction of a qualified Quantity Surveyor for three of the final four years of the course.

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

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

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

Full-Time/		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
BGB151	Construction I	12	6
CMB134	Communications	4	2
BGB342	Law 2 - Principles & Property	3	1.5
MAB297	Mathematics for Construction	4	2
SVB101	Surveying & Measuring	4	2
BGB442-1	Valuations & Dilapidations	4	2 2
MNB018	Industrial Relations	4	2
BGB103	Material Science I	4	2
BGB143	Structures I	4	$\overline{2}$
Semester 2	-		2
			_
BGB154	Construction II	14	7 3
BGB345	Hygiene & Sanitation	6	3
BGB343	Economics of Construction Industry	4	2
BGB131	Measurement of Construction IA	6	2 3 2 1
ISB180	Computer Applications	4	2
BGB442-2	Valuations & Dilapidations	2	1
BGB104	Material Science II	4	2
BGB144	Structures II	4	2
Somector 3		-	_
Semester 3			_
BGB253	Construction III	10	5
BGB013	Building Services I -HVAC	4	2
BGB245	Measurement of Construction IB	6	3
BGB443	Building Services III	5	2.5
BGB440-1	Law 3 - Building Contracts	3	1
BGB403	Building Management I	4	2
BGB341	Building & Civil Engineering Construction	n 4	2
ACB281	Building Financial Management I	4	2
BGB247	Material Science III	4	2
Somostor A	(Spring)		
Semester 4			,
BGB254	Construction IV	12	6
BGB243	Law 1 - Building Acts & Regulations	5	2
BGB014	Building Services II - Electrical	4	2
BGB246	Measurement of Construction IIB	8 3 5 4	4
BGB440-2	Law 3 - Building Contracts	3	1
BGB446	Estimating I	5	2.5
BGB404	Building Management II	4	2
BGB543	Law 4 - Torts & Arbitrations	3	1.5
BGB643	Law 5 - Commercial Law	3	1.5
	OR Elective		
Semester 5	(Autumn)		
BGB540	Estimating II	5	2,5
BGB547	PM3 - Construction Planning Techniques		2.5
BGB444	Mechanical & Electrical Estimating	4	2
	OR Elective	•	-
BGB451	Computer Software Applications I	4	2
BGB529	PM2 - Quantitative Techniques	5	2.5
BGB461	Measurement of Construction V	5 3	1.5
101-001	mousarement of construction y	5	1,5



Semester 6 BGB520 BGB301 BGB406 BGB526 BGB552 BGB462 BGB524	(Spring) Specification PM1 - Advanced Construction Methods Building Financial Management II Post Contract Services I Office Management Measurement of Construction VI Measurement of Construction VII	3 4 5 2 3 4	1.5 2 2.5 1 1.5 2
Semester 7 CEB701 BGB656-1 BGB653 BGB623 BGB647	(Autumn) Civil Engineering Quantities I Building Research Post Contract Services II PM6 - Building Development Technique Cost Planning & Cost Control I	4 8 5 es I 4 4	2 4 2.5 2 2
Semester 8 CEB801 BGB656-2 BGB656-2 BGB652 BGB624 BGB624 BGB648 Part-Time	(Spring) Civil Engineering Quantities II Building Research Computer Software Applications II PM7 - Building Development Technique Cost Planning & Cost Control II Course Structure	3 10 4 25 II 4 6 Credit	1.5 5 2 2 3 Contact
		Points	Hrs/Wk
Semester 1 BGB151 MAB297 BGB103 BGB143	(Autumn) Construction I Mathematics for Construction Material Science I Structures I	12 4 4 4	6 2 2 2
Semester 2 BGB154 ISB180 BGB104 BGB144	(Spring) Construction II Computer Applications Material Science II Structures II	14 4 4 4	7 2 2 2
Semester 3 BGB253 CMB134 BGB005 BGB247	(Autumn) Construction III Communications Measurement of Construction I Material Science III	10 4 6 4	5 2 3 2
Semester 4 BGB254 BGB243 BGB006	(Spring) Construction IV Law 1 - Building Acts & Regulations Measurement of Construction II	12 5 6	6 2 3
Semester 5 BGB013 BGB341 BGB342 BGB442-1 SVB101 BGB009	(Autumn) Building Services I -HVAC Building & Civil Engineering Constructi Law 2 - Principles & Property Valuations & Dilapidations Surveying & Measuring Measurement of Construction III	4 3 4 4 4	2 2 1.5 2 2 2
Semester 6 BGB014 BGB343 BGB345	(Spring) Building Services II - Electrical Economics of Construction Industry OR Elective Hygiene & Sanitation	4 4 6	2 2 3
CECUCI	ry from a bantation	0	5



BGB442-2 BGB520 BGB010	Valuations & Dilapidations Specification Measurement of Construction IV	2 3 4	1 1.5 2
Semester 7	(Autumn)		
BGB443 BGB440-1 CEB701 BGB403 BGB451 BGB461	Building Services III Law 3 - Building Contracts Civil Engineering Quantities I Building Management I Computer Software Applications I Measurement of Construction V	5 3 4 4 3	2.5 1 2 2 1.5
Semester 8	(Spring)		
BGB440-2 CEB801 BGB446 BGB404 BGB301 BGB462	Law 3 - Building Contracts Civil Engineering Quantities II Estimating I Building Management II PM1 - Advanced Construction Methods Measurement of Construction V1	3 3 5 4 4 3	1 1.5 2.5 2 2 1.5
Semester 9	(Autumn)		
BGB540 ACB281 BGB529 BGB547 BGB444	Estimating II Building Financial Management I PM2 - Quantitative Techniques PM3 - Construction Planning Techniques I Mechanical & Electrical Estimating OR Elective	5 4 5 5 4	2.5 2 2.5 2.5 2
Semester 1	0 (Spring)		
BGB406 BGB526 BGB543 BGB643 BGB552	Building Financial Management II Post Contract Services I Law 4 - Torts and Arbitration Law 5 - Commercial Law OR Elective Office Management	4 5 3 3	2 2.5 1.5 1.5
BGB524	Measurement of Construction VII	4	2
Semester 1	1 (Autumn)		
BGB656-1 MNB018 BGB653 BGB623 BGB647	Building Research Industrial Relations Post Contract Services II PM6 - Building Development Techniques Cost Planning & Cost Control I	8 4 5 1 4 4	4 2 2.5 2 2
Semester 1	2 (Spring)		
BGB656-2 BGB452 BGB624 BGB648	Building Research Computer Software Applications II PM7 - Building Development Techniques Cost Planning & Cost Control II	10 4 II 4 6	5 2 2 3

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

BGJ201 Bachelor of Applied Science - Construction Management

Course Duration: 12 semesters part-time OR 4 semesters full-time plus 4 semesters part-time

Total Credit Points: 289

Standard Credit Points/Full-Time Semester: 48.17

Course Co-ordinator: Mr Gary Thomas

Special Course Requirement

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

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

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

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

Full-Time/	Part-Time Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
BGB151 CMB134 BGB342 MNB007 MAB297 SVB101 BGB103 BGB143	Construction I Communications Law 2 - Principles & Property Behavioural Science Mathematics for Construction Surveying & Measuring Material Science I Structures I	12 4 3 6 4 4 4 4	6 2 1.5 3 2 2 2 2 2
Semester 2	(Spring)		
BGB154 BGB345 BGB343 BGB131 SVB203 ISB180 BGB104 BGB144	Construction II Hygiene & Sanitation Economics of Construction Industry Measurement of Construction IA Project Survey Computer Applications Material Science II Structures II	14 6 4 6 4 4 4 4	7 3 2 3 2 2 2 2 2 2
Semester 3	(Autumn)		
BGB253 BGB013 BGB245 BGB443 BGB440-1 BGB403 BGB442-1 BGB601 BGB247	Construction III Building Services I -HVAC Measurement of Construction IB Building Services III Law 3- Building Contracts Building Management I Valuations & Dilapidations Formwork Design & Construction Material Science III	10 4 5 3 4 4 4 4 4	5 2 3 2.5 1 2 2 2 2 2

BGB257	Structures III	4	2
Semester 4	(Spring)		
BGB254	Construction IV	12	6
BGB243	Law 1 - Building Acts & Regulations	5	2
BGB014	Building Services II - Electrical	4	2
BGB246	Measurement of Construction IIB	8	4
BGB440-2	Law 3 - Building Contracts	3	1
BGB446	Estimating I	5	2.5
BGB404	Building Management II	4	2
BGB442-2	Valuations & Dilapidations	2	1
BGB405	Project Equipment & Safety	4	2
BGB258	Structures IV	4	2
Semester 5	(Autumn)		
BGB540	Estimating II	5	2.5
BGB444	Mechanical & Electrical Estimating OR Elective	4	2
ACB281	Building Financial Management I	4	2
BGB529	PM2- Quantitative Techniques	5	2.5
BGB547	PM3- Construction Planning Techniques		2.5
BGB341	Building & Civil Engineering Constructi	on 4	2
Semester 6	(Spring)		
BGB543	Law 4 - Torts & Arbitrations	3	1.5
BGB301	PM1 - Advanced Construction Methods	4	2
BGB406	Building Financial Management II	4	2 2 4
BGB548	PM4 - Construction Planning Techniques	s II 8	4
BGB550	PM5 - Project Cost Control	6	3
Semester 7	' (Autumn)		
CEB701	Civil Engineering Quantities I OR Elective	4	2
BGB656-1	Building Research	8	4
BGB642	Applied Computer Techniques	6	3
MNB018	Industrial Relations	4	2 2
BGB623	PM6 - Building Development Technique	sI4	2
Semester 8	(Spring)		
BGB656-2	Building Research	10	5
BGB401	Building Economics & Cost Planning	4	5 2
BGB643	Law 5 - Commercial Law	3	1.5
BGB624	OR Elective PM7 - Building Development Technique	s II 4	2
BGB606	PM8 - Land Development Studies	4	2 2
Part-Time	Course Structure	Credit	Contact
		Points	Hrs/Wk
Semester 1	(Autumn)		
BGB151	Construction I	12	6
MAB297	Mathematics for Construction	4	2
BGB103	Material Science I	4	$\tilde{2}$
BGB143	Structures I	4	$\overline{2}$
Semester 2	(Spring)		
BGB154	Construction II	14	7
ISB180	Computer Applications	4	2
BGB104	Material Science II	4	2 2
BGB144	Structures II	4	2
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Semester 3	(Autumn)	
BGB253 CMB134 BGB247 BGB005	Construction III Communications Material Science III Measurement of Construction I	$\begin{array}{cccc} 10 & 5 \\ 4 & 2 \\ 4 & 2 \\ 6 & 3 \\ 4 & 2 \end{array}$
BGB257	Structures III	4 2
Semester 4	(Spring)	
BGB254 BGB243	Law 1 - Building Acts & Regulations	12 6 5 2
BGB006 BGB258	Measurement of Construction II Structures IV	5 2 6 3 4 2
Semester 5		
BGB013 BGB341 BGB342 MNB007 SVB101 BGB009	Building Services I - HVAC Building & Civil Engineering Construction Law 2 - Principles & Property Behavioural Science Surveying & Measuring Measurement of Construction III	4 2 4 2 3 1.5 6 3 4 2 4 2
Semester 6	(Spring)	
BGB014 BGB345 BGB405 SVB203 BGB010	Building Services II - Electrical Hygiene & Sanitation Project Equipment & Safety Project Survey Measurement of Construction IV	4 2 6 3 4 2 4 2 4 2 4 2
Semester 7		
BGB443 BGB440-1 BGB403 BGB442-1 BGB601 BGB444	Building Services III Law 3 - Building Contracts Building Management I Valuations & Dilapidations Formwork Design & Construction Mechanical & Electrical Estimating OR Elective	5 2.5 3 1 4 2 4 2 4 2 4 2 4 2 4 2
Semester 8		
BGB440-2 BGB446 BGB404 BGB442-2 BGB301 BGB343	Law 3 - Building Contracts Estimating I Building Management II Valuations & Dilapidations PM1 - Advanced Construction Methods Economics of Construction Industry OR Elective	3 1 5 2.5 4 2 2 1 4 2 4 2
Semester 9		
BGB540 ACB281 BGB529 BGB547 CEB701	Estimating II Building Financial Management I PM2 - Quantitative Techniques PM3 - Construction Planning Techniques I Civil Engineering Quantities OR Elective	5 2.5 4 2 5 2.5 5 2.5 4 2
Semester 10	· · ·	
BGB406 BGB550 BGB548 BGB543 BGB401	Building Financial Management II PM5 - Project Cost Control PM4 - Construction Planning Techniques II Law 4 - Torts & Arbitration Building Economics & Cost Planning	4 2 6 3 8 4 3 1.5 4 2



Semester 1	1 (Autumn)		
BGB656-1	Building Research	8	4
BGB642	Applied Computer Techniques	6	3
MNB018	Industrial Relations	4	2
BGB623	PM6 - Building Development Tecl	hniques I 4	2
Semester 12	2 (Spring)		
BGB656-2	Building Research	10	5
BGB643	Law 5 - Commercial Law	3	1.5
	OR Elective		
BGB624	PM7 - Building Development Tech		2
BGB606	PM8 - Land Development Studies	4	2

BGJ258 Bachelor of Applied Science - Property Economics

Course Duration: 6 semesters full-time, 12 semesters part-time

Total Credit Points: 294

Standard Credit Points/Full-Time Semester: 49

Course Co-odinator: Mr Gary Thomas

Special Course Requirement

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

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

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

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



Semester 3 (Autumn)					
BGB261	Building Studies III	12	5		
BGB361	Building Services IIA	10	4		
BGB363	Valuations III	5	2		
LPB444	Urban Planning III	5	4 2 2		
MNB007	Behavioural Science	6	3		
BGB465	Investment Decisions	U	J		
DOD403	& Financial Strategy I	7	3		
BGB440-1	Law 3 - Building Contracts	3	1		
DOD440-1	Law 5- Building Contracts	3	L		
Semester 4	(Spring)				
BGB262	Building Studies IV	12	5		
BGB264	Building Services IIIA		1.5		
BGB243	Law 1 - Building Acts & Regulations	5			
BGB364	Valuations IV	3 5 7	3		
BGB464	Valuations V - Rural	7	2 3 3		
BGB466	Investment Decisions				
	& Financial Strategy II	8	3		
BGB440-2	Law 3 - Building Contracts	3	1		
BGB643	Law 5 - Commercial Law	3 3	1.5		
		-			
Semester 5					
BGB561	Property Maintenance I	4	2		
BGB563	Valuations - Advanced I	5	2		
BGB565	Time Management	8	3		
BGB569	Project Cost Management I	5 4	2		
BGB567	Real Estate Practice I	4	2		
BGB661	Elective Research Project I	8	4		
BGB663	Project Development Process I	5	2		
BGB665	Property Management I	8 5 5 4	2 3 2 4 2 2		
BGB668	Law 6 - Valuation of Land	4	2		
Semester 6	(Spring)				
BGB562	Property Maintenance II	6	3		
BGB564	Valuations - Advanced II	5	2		
BGB543	Law 4 - Torts & Arbitration	3	1.5		
BGB626	Land Development Studies	л Д	2		
BGB568	Real Estate Practice II	5 3 4 5 8 5	2.5		
BGB662	Elective Research Project II	8	4		
BGB664	Project Development Process II	5			
BGB666	Property Management II	6	2 3 3		
BGB667	Applied Computer Techniques	6	2		
DOD007	Applied Complies Techniques	0	5		
Part-Time	Course Structure	Credit	Contact		
	course our acture		Contact		
		Points	Hrc/Wk		
		Points	Hrs/Wk		
Semester 1	(Autumn)	Points	Hrs/Wk		
Semester 1 BGB161					
BGB161	Building Studies I	14	5.5		
BGB161 MAB298	Building Studies I Maths & Statistics	14 4	5.5 2		
BGB161 MAB298 MNB251	Building Studies I Maths & Statistics Macroeconomic Analysis	14	5.5		
BGB161 MAB298	Building Studies I Maths & Statistics Macroeconomic Analysis	14 4	5.5 2		
BGB161 MAB298 MNB251	Building Studies I Maths & Statistics Macroeconomic Analysis (Spring)	14 4	5.5 2 3		
BGB161 MAB298 MNB251 Semester 2	Building Studies I Maths & Statistics Macroeconomic Analysis (Spring) Building Studies II	14 4 12	5.5 2		
BGB161 MAB298 MNB251 Semester 2 BGB162	Building Studies I Maths & Statistics Macroeconomic Analysis (Spring)	14 4 12 9	5.5 2 3 3.5 2.5		
BGB161 MAB298 MNB251 Semester 2 BGB162 BGB164	Building Studies I Maths & Statistics Macroeconomic Analysis (Spring) Building Studies II Building Services IA	14 4 12 9 6	5.5 2 3 3.5		
BGB161 MAB298 MNB251 Semester 2 BGB162 BGB164 BGB166 ISB180	Building Studies I Maths & Statistics Macroeconomic Analysis (Spring) Building Studies II Building Services IA Urban Economics Computer Applications	14 4 12 9 6 4	5.5 2 3 3.5 2.5 2		
BGB161 MAB298 MNB251 Semester 2 BGB162 BGB164 BGB166 ISB180 Semester 3	Building Studies I Maths & Statistics Macroeconomic Analysis (Spring) Building Studies II Building Services IA Urban Economics Computer Applications (Autumn)	14 4 12 9 6 4 4	5.5 2 3 3.5 2.5 2 2		
BGB161 MAB298 MNB251 Semester 2 BGB162 BGB164 BGB166 ISB180 Semester 3 BGB261	Building Studies I Maths & Statistics Macroeconomic Analysis (Spring) Building Studies II Building Services IA Urban Economics Computer Applications (Autumn) Building Studies III	14 4 12 9 6 4 4 4	5.5 2 3 3.5 2.5 2 2		
BGB161 MAB298 MNB251 Semester 2 BGB162 BGB164 BGB166 ISB180 Semester 3 BGB261 CMB134	Building Studies I Maths & Statistics Macroeconomic Analysis (Spring) Building Studies II Building Services IA Urban Economics Computer Applications (Autumn) Building Studies III Communications	14 4 12 9 6 4 4 4	5.5 2 3 3.5 2.5 2 2		
BGB161 MAB298 MNB251 Semester 2 BGB162 BGB164 BGB166 ISB180 Semester 3 BGB261	Building Studies I Maths & Statistics Macroeconomic Analysis (Spring) Building Studies II Building Services IA Urban Economics Computer Applications (Autumn) Building Studies III	14 4 12 9 6 4 4 4	5.5 2 3 3.5 2.5 2		



$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Semester 4	(Spring)			
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	BGB262	Building Studies IV	12	5	
BGB268Valuations II73BGB243Law 1 - Building Acts & Regulations52Semester 5 (Autumn)BGB361Building Services IIA104BTB663Urban Planning I42BGB367Real Estate - Accounting I42Semester 6 (Spring)BGB364Valuations III73BGB364Valuations IV73BGB364Valuations IV73BGB364Valuations IV73BGB368Real Estate - Accounting II73LPB441Urban Planning II52MNB007Behavioural Science63BGB465Investment Decisions31Semester 8 (Spring)BGB440-1Law 3 - Contracts3SGB440-1Law 3 - Building Contracts31SVB101Surveying & Measuring42Semester 9 (Autumn)BGB43Law 5 - Commercial Law3BGB43Law 5 - Commercial Law31.5Semester 9 (Autumn)BGB561Property Maintenance I42BGB563Valuations - Advanced I522BGB564Valuations - Advanced I522BGB565Property Maintenance II633BGB564Valuations - Advanced II52BGB564Project Cost Management I52BGB565Property Maintenance II63BGB566Property Mainten	BGB264	Building Services IIIA		1.5	
Semester 5 (Autumn) BGB361 Building Services IIA 10 4 BTB663 Urban Planning I 4 2 BGB363 Valuations III 5 2 BGB364 Valuations III 5 2 BGB364 Property Marketing 7 3 BGB364 Valuations IV 7 3 BGB364 Valuations IV 7 3 BGB368 Real Estate - Accounting II 7 3 BGB368 Real Estate - Accounting II 7 3 BGB368 Real Estate - Accounting II 7 3 BGB441 Urban Planning III 5 2 Semester 7 (Autumn) LPB444 Urban Planning III 5 2 MNB007 Behavioural Science 6 3 3 1 SVB101 Surveying & Measuring 4 2 2 Semester 8 (Spring) BGB440-1 Law 3 - Dontracts 3 1 3 BGB464 Valuations V - Rural 7 3 3 3 5 BGB464 <td>BGB268</td> <td></td> <td>7</td> <td></td>	BGB268		7		
BGB361Building Services IIA104BTB663Urban Planning I42BGB363Valuations III52BGB367Real Estate - Accounting I42Semester 6 (Spring)BGB362Property Marketing73BGB364Valuations IV73BGB368Real Estate - Accounting II73BGB368Real Estate - Accounting II73BGB368Real Estate - Accounting II73BGB440-1Urban Planning III52MNB007Behavioural Science63BGB465Investment Decisions & Financial Strategy I73BGB440-1Law 3 - Contracts31SVB101Surveying & Measuring42Semester 8 (Spring)B3BGB464Valuations V - Rural73BGB465Investment Decisions & Financial Strategy II83BGB561Property Maintenance I42BGB563Valuations - Advanced I52BGB564Property Maintenance I42BGB567Real Estate Practice I42Semester 10 (Spring)52BGB568Project Cost Management I52BGB569Project Cost Management I52BGB568Real Estate Practice I84BGB569Project Cost Management I52BGB568Real Estate Practice I <t< td=""><td>BGB243</td><td>Law 1 - Building Acts & Regulations</td><td>5</td><td>2</td></t<>	BGB243	Law 1 - Building Acts & Regulations	5	2	
BTB663 Urban Planning I 4 2 BGB363 Valuations III 5 2 BGB367 Real Estate - Accounting I 4 2 Semester 6 (Spring) 7 3 BGB364 Valuations IV 7 3 BGB364 Valuations IV 7 3 BGB364 Real Estate - Accounting II 7 3 BGB365 Real Estate - Accounting II 7 3 BGB366 Real Estate - Accounting II 7 3 BGB464 Urban Planning III 5 2 Semester 7 (Autumn) LPB444 Urban Planning III 5 2 MNB007 Behavioural Science 6 3 3 BGB465 Investment Decisions 3 1 3 SVB101 Surveying & Measuring 4 2 3 BGB440-2 Law 3 - Contracts 3 1 3 BGB446 Valuations V- Rural 7 3 3 BGB543 Law 4 - Torts & Arbitration 3 1.5 BGB561 Pro	Semester 5	(Autumn)			
BTB663 Urban Planning I 4 2 BGB363 Valuations III 5 2 BGB367 Real Estate - Accounting I 4 2 Semester 6 (Spring) 7 3 BGB364 Valuations IV 7 3 BGB364 Valuations IV 7 3 BGB364 Real Estate - Accounting II 7 3 BGB365 Real Estate - Accounting II 7 3 BGB366 Real Estate - Accounting II 7 3 BGB464 Urban Planning III 5 2 Semester 7 (Autumn) LPB444 Urban Planning III 5 2 MNB007 Behavioural Science 6 3 3 BGB465 Investment Decisions 3 1 3 SVB101 Surveying & Measuring 4 2 3 BGB440-2 Law 3 - Contracts 3 1 3 BGB446 Valuations V- Rural 7 3 3 BGB543 Law 4 - Torts & Arbitration 3 1.5 BGB561 Pro	BGB361	Building Services IIA	10	4	
BCB363 Valuations III 5 2 BGB367 Real Estate - Accounting I 4 2 Semester 6 (Spring) BGB362 Property Marketing 7 3 BGB364 Valuations IV 7 3 BGB368 Real Estate - Accounting II 7 3 BGB464 Valuations IV 7 3 BGB470-1 Law 3- Contracts 3 1 SVB101 Surveying & Measuring 4 2 Semester 8 (Spring) BGB440-1 Law 3 - Building Contracts 3 1 BGB440 Valuations V - Rural 7 3 3 BGB440 2 Semester 8 (Spring) BGB444 Valuations V - Rural 7 3 3 1 BGB440 Valuations V - Rural 7 3 3 15 3 1 BGB440 Valuations V - Arbitration 3 </td <td>BTB663</td> <td></td> <td></td> <td>2</td>	BTB663			2	
Semester 6 (Spring) BGB362 Property Marketing 7 3 BGB364 Valuations IV 7 3 BGB368 Real Estate - Accounting II 7 3 LPB441 Urban Planning II 4 2 Semester 7 (Autumn) 1 4 2 LPB441 Urban Planning III 5 2 MNB007 Behavioural Science 6 3 BGB465 Investment Decisions 6 3 BGB440-1 Law 3 - Contracts 3 1 SVB101 Surveying & Measuring 4 2 Semester 8 (Spring) BGB440-2 Law 3 - Building Contracts 3 1 BGB464 Valuations V - Rural 7 3 3 BGB464 Valuations V - Rural 7 3 BGB464 Valuations V - Rural 7 3 3 1 5 BGB543 Law 5 - Commercial Law 3 1.5 5 2 2 BGB561 Property Maintenance I 4 2 2 5 2 3 3	BGB363	Valuations III	5	2	
BGB362 Property Marketing 7 3 BGB364 Valuations IV 7 3 BGB368 Real Estate - Accounting II 7 3 BCB368 Real Estate - Accounting II 7 3 LPB441 Urban Planning II 4 2 Semester 7 (Autumn) 1 5 2 LPB444 Urban Planning III 5 2 MNB007 Behavioural Science 6 3 BGB465 Investment Decisions 3 1 Semester 8 (Spring) 8 3 1 BGB440-1 Law 3 - Contracts 3 1 Semester 8 (Spring) 8 3 1 BGB440-2 Law 3 - Building Contracts 3 1 Semester 9 (Autumn) 8 3 3 BGB543 Law 4 - Torts & Arbitration 3 1.5 Semester 9 (Autumn) 8 3 3 BGB561 Property Maintenance I 4 2 BGB563 Valuations - Advanced I 5 2 BGB565 Time	BGB367	Real Estate - Accounting I	4	2	
BGB364 Valuations IV 7 3 BGB368 Real Estate - Accounting II 7 3 LPB441 Urban Planning II 4 2 Semester 7 (Autumn) 1 5 2 LPB444 Urban Planning III 5 2 MNB007 Behavioural Science 6 3 BGB465 Investment Decisions 3 1 Kenseter 8 Spring) 3 3 BGB440-1 Law 3 - Contracts 3 1 SVB101 Surveying & Measuring 4 2 Semester 8 (Spring) 3 1 BGB440-2 Law 3 - Building Contracts 3 1 BGB444 Valuations V - Rural 7 3 BGB454 Law 4 - Torts & Arbitration 3 1.5 BGB643 Law 4 - Torts & Arbitration 3 1.5 Semester 9 (Autumn) BGB561 Property Maintenance I 4 2 BGB563 Valuations - Advanced I 5 2 2 BGB564 Valuations - Advanced II 5	Semester 6	(Spring)			
BGB364 Valuations IV 7 3 BGB368 Real Estate - Accounting II 7 3 LPB441 Urban Planning II 4 2 Semester 7 (Autumn) 1 5 2 LPB444 Urban Planning III 5 2 MNB007 Behavioural Science 6 3 BGB465 Investment Decisions 3 1 Kenseter 8 Spring) 3 3 BGB440-1 Law 3 - Contracts 3 1 SVB101 Surveying & Measuring 4 2 Semester 8 (Spring) 3 1 BGB440-2 Law 3 - Building Contracts 3 1 BGB444 Valuations V - Rural 7 3 BGB454 Law 4 - Torts & Arbitration 3 1.5 BGB643 Law 4 - Torts & Arbitration 3 1.5 Semester 9 (Autumn) BGB561 Property Maintenance I 4 2 BGB563 Valuations - Advanced I 5 2 2 BGB564 Valuations - Advanced II 5	BGB362	Property Marketing	7	3	
Semester 7 (Autumn) LPB444 Urban Planning III 5 2 MNB007 Behavioural Science 6 3 BGB465 Investment Decisions 6 3 BGB440-1 Law 3 - Contracts 3 1 SVB101 Surveying & Measuring 4 2 Semester 8 (Spring) BGB440-2 Law 3 - Building Contracts 3 1 BGB464 Valuations V - Rural 7 3 3 BGB464 Valuations V - Rural 7 3 3 BGB464 Valuations V - Rural 7 3 3 BGB464 Valuations A traitegy II 8 3 3 BGB543 Law 4 - Torts & Arbitration 3 1.5 5 Semester 9 (Autumn) BGB561 Property Maintenance I 4 2 2 BGB563 Valuations - Advanced I 5 2 2 BGB565 Time Management I 5 2 BGB564 Valuations - Advanced II 5 2 2 BGB562 Property Maintenance II 6 3 3			7	3	
Semester 7 (Autumn) LPB444 Urban Planning III 5 2 MNB007 Behavioural Science 6 3 BGB465 Investment Decisions 6 3 BGB440-1 Law 3 - Contracts 3 1 SVB101 Surveying & Measuring 4 2 Semester 8 (Spring) BGB440-2 Law 3 - Building Contracts 3 1 BGB464 Valuations V - Rural 7 3 3 BGB464 Valuations V - Rural 7 3 3 BGB464 Valuations V - Rural 7 3 3 BGB464 Valuations A traitegy II 8 3 3 BGB543 Law 4 - Torts & Arbitration 3 1.5 5 Semester 9 (Autumn) BGB561 Property Maintenance I 4 2 2 BGB563 Valuations - Advanced I 5 2 2 BGB565 Time Management I 5 2 BGB564 Valuations - Advanced II 5 2 2 BGB562 Property Maintenance II 6 3 3	BGB368	Real Estate - Accounting II		3	
LPB444Urban Planning III52MNB007Behavioural Science63BGB405Investment Decisions & Financial Strategy I73BGB440-1Law 3 - Contracts31SvB101Surveying & Measuring42Semester 8 (Spring)BGB440-2Law 3 - Building Contracts31BGB440-2Law 3 - Building Contracts31BGB440-2Law 3 - Building Contracts31BGB466Investment Decisions & Financial Strategy II83BGB543Law 4 - Torts & Arbitration31.5BGB643Law 5 - Commercial Law31.5Semester 9 (Autumn)BGB561Property Maintenance I4BGB563Valuations - Advanced I52BGB564Valuations - Advanced I52BGB565Project Cost Management I52BGB564Valuations - Advanced II52BGB564Valuations - Advanced II52BGB564Valuations - Advanced II52BGB564Valuations - Advanced II52BGB568Real Estate Practice II63BGB661Elective Research Project I84BGB663Project Development Process I52BGB664Law 6 - Valuation of Land42Semester 12 (Spring)BGB662Elective Research Project II84BGB666Project Development Process II <t< td=""><td>LPB441</td><td>Urban Planning II</td><td>4</td><td>2</td></t<>	LPB441	Urban Planning II	4	2	
MNB007Behavioural Science63BGB465Investment Decisions & Financial Strategy I73BGB440-1Law 3 - Contracts31SVB101Surveying & Measuring42Semester 8 (Spring)BGB440-2Law 3 - Building Contracts31BGB464Valuations V - Rural73BGB464Investment Decisions & Financial Strategy II83BGB543Law 4 - Torts & Arbitration31.5BGB643Law 5 - Commercial Law31.5Semester 9 (Autumn)BGB561Property Maintenance I42BGB563Valuations - Advanced I52BGB564Valuations - Advanced I52BGB567Real Estate Practice I42Semester 10 (Spring)BGB562Property Maintenance II6BGB564Valuations - Advanced II52BGB565Real Estate Practice II52Semester 11 (Autumn)BGB661Elective Research Project I8BGB661Elective Research Project I84BGB665Property Management I52BGB666Property Management I52BGB661Elective Research Project I84BGB661Elective Research Project I84BGB664Law 6 - Valuation of Land42Semester 12 (Spring)S2BGB666Property Management II52 <t< td=""><td>Semester 7</td><td>(Autumn)</td><td></td><td></td></t<>	Semester 7	(Autumn)			
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Semester 12 (Spring)BGB662Elective Research Project II84BGB664Project Development Process II52BGB666Property Management II63		Property Management I	5	2	
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BGB664Project Development Process II52BGB666Property Management II63	Semester 12 (Spring)				
BGB664Project Development Process II52BGB666Property Management II63	BGB662	Elective Research Project II	8	4	
BGB666Property Management II63BGB667Applied Computer Techniques63			5	2	
BGB667 Applied Computer Techniques 6 3				3	
	BGB667	Applied Computer Techniques	6	3	



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

BTJ227 Bachelor of Applied Science - Built Environment with Strands in Architecture, Industrial Design, Interior Design, Landscape Architecture, Urban & Regional Planning

Course Duration: 6 semesters full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr John Donnelly

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk		
ARCHITE	CTURE STRAND				
Semester 1	(Autumn)				
BTB101 BTB102 BTB103 BTB110 PHB144 SVB001	The Human Environment I History of the Built Environment I Environmental Studies I Applied Mathematics for Designers I Applied Science for Designers I Surveying & Mapping	4 6 6 6 2 4	2 3 1 3 3 1		
CMB116 BTB100	Writing for Designers I Introductory Design I	4 18	2 8		
Semester 2 BTB201 BTB202 BTB203 BTB210	(Spring) The Human Environment II History of the Built Environment II Environmental Studies II Applied Mathematics for Designers II	4 10 2 6	2 5 1 3		
BTB204 BTB209 CMB117 BTB200	Applied Science for Designers II Applied Land Science for Designers Writing for Designers II Introductory Design II	4 2 4 16	2 5 1 3 2 1 2 8		
Semester 3	(Autumn)				
BTB301 CEB359 BTB310 BTB307 BTB303 BTB300 BTB306	The Human Environment III Principles of Structure I Building Construction I Design Science I Environmental Studies III - Evaluation Design I Visual Communication I	6 2 14 2 2 18 4	3 1 6 1 1 7 2		
Semester 4 BTB403 BTB410 BTB401	(Spring) Environmental Studies IV - Environmental Impacts Building Construction II The Human Environment IV	2 10 4	1 5 2		



		_	
BTB407	Design Science II	2	1
CEB459 BTB406	Principles of Structure II Visual Communications II	4 4	2 2
BTB400	Design II	20	6
BTB440	Introduction to Economics	2	Ĩ
Semester 5	(Autumn)		
BTB517	Building Services I	4	2
BTB510	Building Construction III	17	$\tilde{6}$
BTB500	Design III	20	6
CEB559	Principles of Structure III	4	2
BTB527	Design Science III	3	1
Semester 6	(Spring)		
BTB609	Law of the Built Environment	4	2
BTB617 BTB610	Building Services II Building Construction IV	4 14	2 6
BTB600	Design IV	20	6
CEB659	Principles of Structure IV	4	2
BTB627	Design Science IV	2	1
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-	AL DESIGN STRAND		
Semester 1			2
BTB101 BTB102	The Human Environment I History of the Built Environment I	4 6	2 3
BTB102 BTB103	Environmental Studies I	2	
BTB110	Applied Mathematics for Designers I	6	1 3 3 2
PHB144	Applied Science for Designers I	6	3
CMB116 BTB100	Writing for Designers I	4 18	2 8
BTB151	Introductory Design I Introduction to Technology	2	1
		_	
Semester 2	(Spring)		
BTB201	The Human Environment II	4	2
BTB202	History of the Built Environment II	10	5
BTB203	Environmental Studies II	2	I
BTB210 BTB204	Applied Mathematics for Designers II	6 4	3 2 2
CMB117	Applied Science for Designers II Writing for Designers II	4	2
BTB200	Introductory Design II	16	8
BTB220	Ergonomics I	2	1
Semester 3	(Autumn)		
BTB301	The Human Environment III	6	3
CEB359	Principles of Structure I	2	1
BTB315	Manufacturing Technology I	12 2	6
BTB303 BTB300	Environmental Studies III - Evaluation Design I	18	1 7
BTB306	Visual Communication I	4	2 2
BTB320	Ergonomics II	4	2
Semester 4	(Spring)		
BTB403	Environmental Studies IV		
DTDAT	- Environmental Impacts	2	1
BTB415 BTB401	Manufacturing Technology II The Human Environment IV	12 4	6 2
BTB401 BTB406	Visual Communications II	4	$\frac{2}{2}$
BTB400	Design II	20	$\tilde{6}$
BTB420	Ergonomics III	2	I
MEB010	Dynamics I	4	2

THE BUILT ENVIRONMENT

Semester 5	(Autumn)		
BTB500	Design III	20	6
MEB012	Dynamics II	4	2
BTB552	Economics of Industrial Production	4	
BTB558	Manufacturing Technology III	12	5
BTB506	Visual Communication III	4	2 5 2
BTB556	Marketing	4	2
G			
Semester 6			
BTB609	Law of the Built Environment	4	2
BTB600	Design IV	20	6
BTB653	Visual Communication IV	4	2
BTB655	CAD for Industrial Designers	6	2
BTB658	Manufacturing Technology IV	14	5
	DEGICIN OTD AND		
INTERIOR	DESIGN STRAND		
Semester 1	(Autumn)		
BTB101	The Human Environment	4	2
BTB102	History of the Built Environment I	6	3
BTB103	Environmental Studies I	ž	1
PHB144	Applied Science for Designers I	$\overline{6}$	3
CMB116	Writing for Designers I	4	2
BTB100	Introductory Design I	18	8
BTB132	Light & Colour Studies	8	2
Samatan 2			
Semester 2			_
BTB201	The Human Environment II	4	2
BTB202	History of the Built Environment II	10	5
BTB203	Environmental Studies II	2	1
BTB204	Applied Science for Designers II	4 4	2
CMB117 BTB235	Writing for Designers II Introduction to Interior Technology	8	2 2 3
BTB200	Introductory Design II	16	8
			0
Semester 3	(Autumn)		
BTB301	The Human Environment III	6	3
BTB335	Interior Technology I	12	5
BTB307	Design Science I	2	1
BTB303	Environmental Studies III - Evaluation	2	1
BTB300	Design I	18	7
BTB331	Furniture & Fittings I	4	2
BTB306	Visual Communication I	4	2
Semester 4	(Spring)		
BTB403	Environmental Studies IV		
	 Environmental Impacts 	2	1
BTB401	The Human Environment IV	4	2
BTB407	Design Science II	2	1
BTB451	Architectural Interior Systems I	4	2
BTB406	Visual Communications II	4	2
BTB400	Design II	20	6
BTB435	Interior Technology II	8	4
BTB431	Furniture & Fittings II	4	2
Semester 5	(Autumn)		
BTB551	Architectural Interior Systems II	4	2
BTB500	Design III	20	6
BTB506	Visual Communication III	4	2
BTB535	Interior Technology III	16	6
BTB531	Furniture & Fittings III	4	2



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

LANDSCAPE ARCHITECTURE STRAND

Brittebuori			
Semester 1	(Autumn)		
BTB101	The Human Environment I	4	2
BTB102	History of the Built Environment I	6	3
BTB102 BTB103	Environmental Studies I	2	1
		6	3
PHB144	Applied Science for Designers I	0	3
BTB135	Map & Air Photo Interpretation	2	1
CMB116	Writing for Designers I	4	2 8
BTB100	Introductory Design I	18	
MAB195	Quantitative Methods I	6	3
Semester 2	(Spring)		
BTB201	The Human Environment II	4	2
BTB202	History of the Built Environment II	10	5
BTB203	Environmental Studies II	2	Ĭ
BTB204	Applied Science for Designers II	4	2
BTB209	Applied Land Science for Designers	2	ĩ
CMB117	Writing for Designers II	4	2
BTB200	Introductory Design II	16	8
MAB196		6	3
MADIYO	Quantitative Methods II	0	3
Semester 3			
BTB301	The Human Environment III	6	3
BTB307	Design Science I	6 2 2	1
BTB303	Environmental Studies III - Evaluation	2	1
BTB300	Design I	18	7
BTB306	Visual Communication I	4	2
BTB340	Site Measurement	4	1
BTB341	Site Planning Theory	6	2
BTB343	Introduction to Professions	3	ī
BTB344	Oral Presentation	3	1
Semester 4	(Spring)		
BTB403	Environmental Studies IV	~	
DTD (0)	- Environmental Impacts	2	1
BTB401	The Human Environment IV	4	2
BTB407	Design Science II	2	1
BTB406	Visual Communications II	4	2
BTB400	Design II	20	6
BTB414	Population & Urban Studies	6	3
BTB444	Applied Natural Sciences	4	2
BTB440	Introduction to Economics	2	1
BTB441	Site Planning Techniques	2	1
BTB442	Quantities & Costs	2	1
Semester 5	(Autumn)		
BTB543	Environmental Studies V		
	- Impact Analysis	2	I
BTB511	Landscape Construction	6	3
BTB500	Design III	20	6
BTB546	Land Development I	6	3
BTB571	Plant Recognition & Requirements	4	3 2
BTB562	Report Preparation	2	ĩ
BTB565	Landscape Graphics	4	2
212303	Sandooupo Orupineo	r	2



BTB547	Land Use Generation	4	2
Semester 6	(Spring)		
BTB643	Environmental Studies VI - Issues & Ethics	2	i
BTB609	Law of the Built Environment	4	
BTB600	Design IV	20	2 6 2 3 3 1
BTB647	Land Use Policies	4	ž
BTB644	Applied Environmental Science	6	23
BTB645	Grading	6	3
		3	5
BTB640	Planting Design	3	1
BTB649	Conservation Theory	3	1
URBAN &	REGIONAL PLANNING STRAND		
Semester 1	(Autumn)		
BTB101	The Human Environment I	4	2
BTB102	History of the Built Environment I	6	3
BTB103	Environmental Studies I	2	ĩ
PHB144	Applied Science for Designers I	$\overline{6}$	2 3 1 3 2 8 1
CMB116	Writing for Designers I	4	2
BTB100	Introductory Design I	18	2 8
BTB135	Map & Air Photo Interpretation	2	0
MAB195	Quantitative Methods I	6	3
		U	3
Semester 2	· · ·	4	~
BTB201	The Human Environment II	4	2
BTB202	History of the Built Environment II	10	5
BTB203	Environmental Studies II	2	1
BTB204	Applied Science for Designers II	4	1 2 1
BTB209	Applied Land Science for Designers	2	1
CMB117	Writing for Designers II	4	2
BTB200	Introductory Design II	16	2.8
MAB196	Quantitative Methods II	6	3
Semester 3	(Autumn)		
BTB301	The Human Environment III	6	3
BTB307	Design Science I	2	ĩ
BTB303	Environmental Studies III	-	•
	- Evaluation	2	1
BTB300	Design I	18	7
BTB306	Visual Communication I	4	2
BTB340	Site Measurement	4	1
BTB341	Site Planning Theory	6	2
BTB343	Introduction to Professions	3	1
BTB344	Oral Presentation	3	1
Semester 4	(Spring)		
BTB403	Environmental Studies IV		
D 1 D 4 U 3		2	1
DTD /01	- Environmental Impacts	2 4	1
BTB401 BTB407	The Human Environment IV	4 2	2
BTB407	Design Science II Visual Communications II	2 4	1
BTB406	Visual Communications II		2
BTB400	Design II Description & Urban Studios	20	2 6 3 2 1
BTB414	Population & Urban Studies	6	3
BTB444	Applied Natural Sciences	4	2
BTB440	Introduction to Economics	2	
BTB441	Site Planning Techniques	2	1
BTB442	Quantities & Costs	2	1

Semester 5 (Autumn)				
BTB543	Environmental Studies V			
	 Impact Analysis 	2	1	
BTB500	Design III	20	6	
BTB546	Land Development I	6	3	
BTB571	Plant Recognition & Requirements	4	2	
BTB561	Economics of Town Planning	5	2	
BTB562	Report Preparation	5 2 5	1	
BTB563	Transport Planning		2 2	
BTB547	Land Use Generation	4	2	
Semester 6 (Spring)				
BTB643	Environmental Studies VI			
	- Issue & Ethics	2	1	
BTB609	Law of the Built Environment	4	2	
BTB600	Design IV	20	6	
BTB646	Land Development II	4	2	
BTB647	Land Use Policies	4	2	
BTB648	Public Services	4	2	
BTB656	Housing & Community Services	4	2	
BTB654	Urban & Regional Electives	3 3	2	
BTB649	Conservation Theory	3	1	

Recognition by Professional Bodies

Architecture Strand

Successful completion of the Bachelor of Applied Science - Built Environment (Architecture Strand) entitles students to apply for entry to the fourth year of the part-time Bachelor of Architecture course. Before being enrolled in the Bachelor of Architecture course students may be required to take introductory subjects.

Upon completion of the remaining three years of the part-time course, during which time students have been employed in an approved professional practice, the academic requirements for membership of the Royal Australian Institute of Architects are met.

Industrial Design Strand

Successful completion of the Bachelor of Applied Science - Built Environment (Industrial Design Strand) satisfies the requirements for entry to the Graduate Diploma in Industrial Design.

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

Interior Design Strand

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

Landscape Architecture Strand

Successful completion of the Bachelor of Applied Science - Built Environment (Landscape Architecture Strand) satisfies the requirements for entry to the Graduate Diploma in Landscape Architecture which is the only course in landscape architecture in Queensland. It is accredited by the Australian Institute of Landscape Architects.

Urban And Regional Planning

Successful completion of the Bachelor of Applied Science - Built Environment (Urban and Regional Planning Strand) satisfies the requirements for entry to the Graduate Diploma in Urban and Regional Planning, which is fully accredited by the Royal Australian Planning Institute.





BTL178 Associate Diploma Built Environment Technician

This course is being phased out. Continuing students should consult the 1989 Faculty of the Built Environment Handbook for course details.

General Information

Staff

Dean of Faculty: T.F.W.M. Heath, MArch, MBldgSc(Syd), LFRAIA, MFRSA Faculty Secretary: S. Head Faculty Administration Officer: J. Hollindale, BAdmin (Griff) Clerk: J. Doolan Support Staff: B. Elmes (Senior Demonstrator) D. Burgess (Demonstrator) N. Ustianzev (Demonstrator) F. Ten Kate (Resource Centre Supervisor) R. Blanchard (Storeman) **Charles Fulton School of Architecture and Industrial Design** Acting Head of School: B.P. Lim, BArch, DipTCP, PhD(Syd) and Principal Lecturer School Secretary: M. Freeman Administrative Assistant: (part-time) A. Morel Senior Lecturers: S. Arden, BArch(Hons)(NSWIT), DipEd(SydTC) J.J. Donnelly, BArch(Old), DipBldgSci(Syd) G.A. Holden, DipArch, MA(Urban Design)(Manch) D.A. Nutter, BArch(Hons), DipRTP(Qld) V. Popovic, GradEngArch(Belgrade), MFA(ID), SPID-YU Yugoslavia J.C. Woolley, BArch(Natal), MArch(Witw), GradDipCompSc, MIA(S.Aust) J. Devries, DipArch AcadArch(Amsterdam) I. Charlton, BArch(Hons)(Old) Lecturers: J. Franz, BAppSc, DipTeach(BCAE) D. Hardy, DipAD(Hons)(Newcastle), BA(Hons)(Lond) J.E. Hutchinson, BArch, MURP(Qld) J.R. Stewart, BArch(Qld), DipTown&CountPlan, CHS Ekistics(Athens), MArch(Berkeley) K. Stewart, DipArch K'ton, GradDipIndDes(OIT) K.V. Slavicek, PhD(Syd), MBE, BAppSc(NSW) A. Scott, BAppSc, GradDipIndDes(QIT) S. Savage School of Construction Management Head of School: D. Scott, BSc(Eng), PhD, MICE, C.Eng, M.I.P.E.N.Z. School Secretary: B. Greaves Principal Lecturer: G.B. Thomas, Ms(Urban Planning)(III) Senior Lecturers:

J.A. Leicester, HND(ConstMan)(Brixton), MSc(ConstMan)Lond, BEd, DipTeach(Adel)

D. Campbell-Stewart, DipQS(Qld)



Lecturers: L. Coyte, DipBuild(QIT) K.D. Hampson, BEng(Hons), GradDipBusAdmin(QIT) J.F. Hornibrook, DipBuild CTC B.M. Woolnough,

Department of Planning & Landscape Architecture

Head of Department: P. Heywood, BA(Hons)(Oxon), DipTP(Manch)
Departmental Secretary: P. Chambers
Senior Lecturers:
C. Bull, MLArch(Melb)
B.U. Hudson, PhD(Hong Kong), MCD, BA(Hon) (Liverpool)
J.R. Minnery, PhD(Qld), BSc(Hons)(Cantuar), DipTP (Witw), PCE(Lond)
G. Williams, BArch(Qld), DipLD(Newcastle-Upon-Tyne)
J. Brown, BA(Hons) MRegSc(Qld), GradDipLibrarianship(Riverina CAE)
D. Low-Choy, MBE, BA(Qld), GradDipLundArch(QIT)
S. Smith, BSc(Hons)(Qld)
G. Thomas, BArch(Qld), GradDipLandArch(QIT)

Prizes and Awards

Australian Design Council Student Award

Awarded to the student submitting the outstanding product design which has marketing potential.

Australian Institute of Building, Queensland Chapter Prize

Awarded to the student with the best academic achievement in the third or successive years of the Graduate Diploma or Bachelor of Applied Science in Building course.

Australian Institute of Project Management

Donated by the Project Managers Forum and awarded to the student with the best graduate project in the Graduate Diploma in Building Project Management course final year subject.

Australian Institute of Quantity Surveyors, Queensland Chapter Prize

Awarded to the final year student of the Bachelor of Applied Science in Quantity Surveying course who submits the Best Research Project.

Board of Architects Prizes

Awarded:

to the student who shows the greatest proficiency during the first three years of the architecture course; and

to the student who has shown the greatest proficiency on graduation from the Bachelor of Architecture course.

Andrew Brock Prize

Donated by the staff of Utah in memory of Andrew Brock, and awarded to the student with the best performance in the second year of the Bachelor of Applied Science Built Environment.

Design Institute of Australia Award

Awarded to the outstanding student in Product Design in the final year of the Graduate Diploma in Industrial Design.



Director of Local Government Town Planning Prize

Awarded to the student whose thesis is considered to contribute most towards the advancement of town planning.

James Hardie Achievement Award

Awarded to the student in fifth year Design in the Architecture courses whose project shows a high degree of excellence of design and an imaginative and creative use of Hardie's building products for functional, practical and aesthetic purposes.

Karl Langer Award

Awarded by the Australian Institute of Landscape Architects to a student in the Graduate Diploma course in Landscape Architecture who, in the opinion of the adjudicators, shows the marked potential for the practice of Landscape Architecture.

Neville Lund Memorial Award

Awarded to the student in the final year of the Bachelor of Applied Science Built Environment (Landscape Architecture/Urban and Regional Planning Strand) for the best project in integrated environmental design.

David McNeill Memorial Prize

Awarded to the final year student of the Degree in Quantity Surveying who, in the opinion of the adjudicator, shows the highest standard of proficiency in Quantity Surveying expertise.

National Trust Historic Building Prize

Awarded to a final year student of the School of Architecture and Industrial Design and Department of Planning and Landscape Architecture for a thesis study of an historic building or precinct.

Royal Australian Planning Institute Prize

Awarded to the full-time and part-time students with the best overall performances in the Graduate Diploma in Urban and Regional Planning.

Society for Growing Australian Plants Prize for Landscape Design Using Native Plants

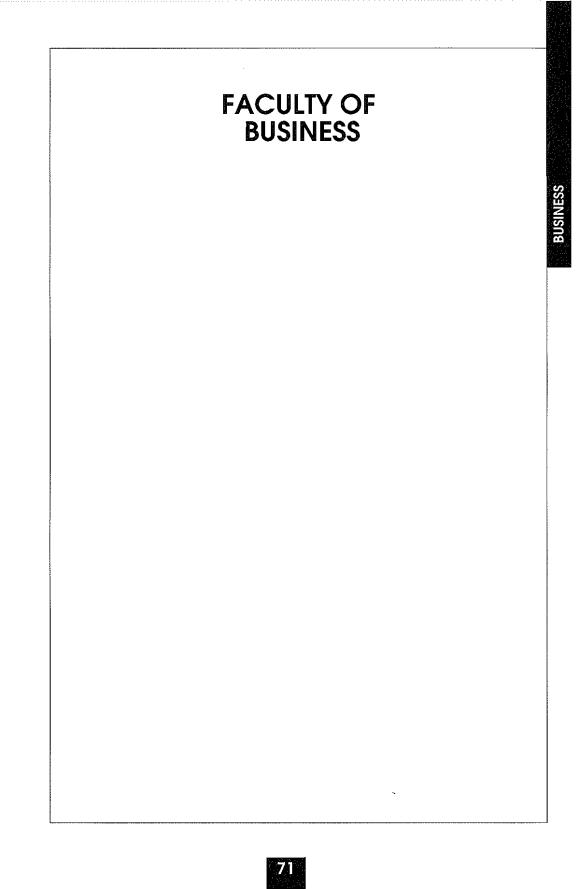
Awarded to a student in the Graduate Diploma in Landscape Architecture course for the best design using Australian native plants.

Urban and Regional Planning Prize

Donated by the Institute of Surveyors, Australia, Queensland Division, and awarded to the student with the best performance in the Foundation year.



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FACULTY OF BUSINESS

Courses Offered

- **BSN218** Master of Business with Strands in Accountancy, Communication, Management
- MNN246 Master of Business Administration
- ACM174 Graduate Diploma in Advanced Accounting
- CMM244 Graduate Diploma in Communication Practice
- IFM242 Graduate Diploma in Quality (see page 21)
- MNM155 Graduate Diploma in Business Administration
- ACJ151 Bachelor of Business Accountancy
- CMJ153 Bachelor of Business Communication
- IFJ223 Bachelor of Business Accountancy/Bachelor of Laws (see page 26)
- IFJ237 Bachelor of Engineering/Bachelor of Business Manufacturing Systems and Management (see page 29)
- MNJ152 Bachelor of Business Management
- MNJ154 Bachelor of Business Public Administration
- MNJ179 Bachelor of Business Health Administration

The Faculty

The Faculty of Business offers a wide range of courses at the professional level of business and government, together with support courses.

All courses within the Faculty are in line with the educational philosophy of the Queensland University of Technology - to provide students with practical training as well as an understanding of the concepts and principles underlying subjects and disciplines. In all courses the Faculty aims at developing a professional attitude to study and work by encouraging individual thought and initiative, experience in group situations, and emphasis upon wide reading and research.

The Faculty of Business seeks to give its students an awareness of the business environment, and endeavours to equip them with analytical decision-making skills and an understanding of human behaviour, organisation, and management that will assist them to attain their highest potential in the profession of their choice.

Students proposing to join a professional body after graduation should ensure that the course program they select is appropriate to particular membership requirements.

Course Structures

BSN218 Master of Business with strands in Accountancy, Communication and Management

Course Duration: 4 semesters full-time, 8 semesters part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Entry Requirements

Applicants for admission to candidature for a degree of Master:

- 1 (a) Shall hold a Bachelor of Business at QUT and shall have achieved a level of attainment in an appropriate discipline or disciplines considered by the Academic Board of the Faculty of Business to be acceptable for the purpose of proceeding to a degree of Master; OR
- 1 (b) shall hold, from another tertiary institution or from QUT, qualifications approved by the Graduate Studies Committee, on the recommendation of the Head of School responsible for the specialisation which the applicant seeks to study, as equivalent to the requirements set out in 1 (a) above*; AND
- 2. Shall normally have had at least two years of appropriate work experience.

PROVISIONAL ENTRY

In exceptional cases, applicants may be registered provisionally in the course if they submit other evidence of academic and professional attainments, and candidature is recommended by the appropriate Head of School and approved by the Graduate Studies Committee.

A provisional registrant may be required to undertake a qualifying program and/or such other work as the Graduate Studies Committee may determine before admission to candidature is confirmed. Provisional registration in the course may apply for a maximum period of twelve months.

Note: Subject to the approval of the external institution concerned and the relevant QUT Faculty of Business course director, students may choose to undertake some electives from the various Masters degrees offered in the Business area at the University of Queensland, Griffith University, DDIAE, BCAE or CIAE.

ACCOUNTANCY STRAND

Course Requirements

In selecting subjects, students may choose from three areas of specialisation - Public Accounting, Managerial Accounting and Finance, and Commercial Law (see Lists 1, 2 and 3 respectively). The fourteen subjects must include:

- (a) ACN114 Accounting Research;
- (b) a minimum of six Group A subjects from Lists 1, 2 and 3;
- (c) within the fourteen subjects, a major sequence of five subjects from one of the Lists 1, 2 or 3;
- (d) Electives the remaining subjects required for the degree may be chosen from Lists 1, 2 and 3 with a maximum of two general electives which may be drawn from any

* In the case of the Master of Business - Communication only, an applicant who does not hold an undergraduate degree may be accepted on the basis of considerable professional teaching experience, subject to the approval of the Graduate Studies Committee.



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postgraduate subjects offered within the Queensland University of Technology or elsewhere, subject to the approval of the Head, School of Accountancy.

Students must complete ACN114 Accounting Research as a prerequisite to enrolment in ACN950 Dissertation. The dissertation should reflect the application of theoretical analysis or problem-solving in Public Accounting, Managerial Accounting/Finance, or Commercial Law. Details concerning the Dissertation requirements may be obtained from the School of Accountancy. Students are advised to seek a topic and to approach a supervisor early in their program.

Program

Approximate formal hours in all subjects of coursework will be three hours per week (12 credit points). The dissertation will be regarded as the equivalent of six formal course hours per week (24 credit points). Note that Professional Year Modules ACN110, ACN120, and ACN170 are equivalent to two subjects. Students should consult the School of Accountancy for details on subjects being offered in the current year. All programs of study must be approved by the Head, School of Accountancy.

List 1

PUBLIC ACCOUNTING

Groud A

- ACN111 **Financial Accounting Honours** ACN118 International Accounting ACN124 Auditing Honours ACN127 External Reporting Issues
- ACN999 Special Topic Public Accounting

List 2

MANAGERIAL ACCOUNTING/FINANCE

Group A

- ACN151 Finance Honours ACN153 International Finance Financial Risk Management ACN156
- ACN231 Managerial Accounting Honours
- ACN232 Managerial Accounting Issues A

List 3

COMMERCIAL LAW

Group A		Group B	
ACNÍ72	International Law	ACN119	Company Secretarial Practice
ACN174	Liquidations & Receiverships	ACN171	Advanced Taxation
ACN175	Commercial Law Honours	ACN176	Indirect Taxation
ACN177	Taxation Policy Honours	ACN178	Taxation & Professional Practice
	-	ACN997	Special Topic - Commercial Law

COMMUNICATION STRAND

Course Requirements

A student must complete a total of 12 subjects plus a thesis/project or two dissertations (192 credit points in total). The program must include: four core subjects from Group A; four elective subjects, approved by the Graduate Studies Co-ordinator in the School of Communication, from Groups B, C, D, and a research component (Group E).

In fulfilling the requirements for the Master of Business - Communication degree, a student must choose either the thesis/project option or the dissertations option.

Group	B
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ACNI12 ACN121	Advanced Company Accounting Computer Auditing
ACN122	Audit Sampling
ACN123 ACN125	
ACN126	Financial Reporting
ACN122 ACN123 ACN125	Audit Sampling Internal Auditing Auditing Standards & Practic

Group B	
ACN152	Advanced Capital Budgeting
ACN155	Financial Modelling
ACN233	Managerial Accounting Issues B
ACN998	Special Topic - Managerial
	Accounting/Finance
	-

Company Secretarial Practice
Advanced Taxation
Indirect Taxation
Taxation & Professional Practice
Special Topic - Commercial Law

RESEARCH OPTIONS

A student may select a thesis or a project, either of which is worth 48 credit points; or two dissertations, each of which is worth 24 credit points.

A project is an approved program of substantive work leading to a report, communication program, printed or audio-visual production, disc, or some other product in which theories of communication have been applied to some problem or issue. It will be graded satisfactory/unsatisfactory.

A thesis is a scholarly work which gives the student an opportunity to combine an appropriate theory or perspective, and appropriate, specific research methodology to examine a significant communication problem or issue. It will not exceed 20,000 words of main text. It will be graded satisfactory/unsatisfactory.

A dissertation will normally be taken in conjunction with, or subsequent to, a subject in the CMN800-899 series. It will use secondary research to investigate a communication concept appropriate to the relevant subject. It will not normally exceed 10,000 words.

PROCEDURES

When a student has progressed far enough into his or her program, usually on completion of one year of the full-time program, or two years of the part-time program, the student advises the Co-ordinator of Graduate Studies whether he or she wishes to proceed with a project, a thesis or two subject- related dissertations.

PROJECT OR THESIS

If the student chooses the project or thesis option, he or she should select an area of study and find a staff member of the Communication Graduate Board of Studies who is willing to be the principal supervisor of a project or thesis in that area.

The student, in consultation with the staff member, should develop a formal project or thesis proposal. The staff member will present the proposal to the Communication Graduate Board of Studies in the semester before the student enrols in Group E subjects. The Board will consider the appropriateness of the proposal and of the proposed principal supervisor. Once approved, the proposal will be registered.

After the Communication Graduate Board of Studies has approved the proposal, the student may proceed with the study, working closely with the principal supervisor, who is expected to oversee all aspects of the work. The project or thesis normally will be defended before a committee comprising the principal supervisor, and two others approved by the Communication Graduate Board of Studies.

The Communication Graduate Board of Studies may appoint an associate supervisor with expertise in a methodology or specific knowledge of the project or thesis topic. Any staff member or a person external to the University may be appointed as an associate supervisor, with approval of the Communication Graduate Board of Studies.

Students should normally expect to spend an average of one hour per week in collaboration with the principal and/or associate supervisors.

DISSERTATIONS

If a student chooses the dissertations option, he or she nominates two topics from subjects in the CMN800-CMN899 range and enrols in CMN910 and CMN911 either concurrent with, or subsequent to, studying the relevant subject. The work is supervised by the lecturer normally in charge of the relevant subject from which the dissertation topic arises. Normally students may write only one dissertation per semester.

No dissertation may be attempted until after a student has successfully completed Mass Communication A and B, and Communication Evaluation.



		Credit Points	Contact Hrs/Wk
Group A: C	ore Subjects		
CMN710	Mass Communication A	12	3
CMN711	Mass Communication B	12	3
CMN720	Communication Evaluation	12	3 3
CMN824	Communication Policy & Planning	12	3
Group B: P	ostgraduate Electives in Communication		
CMN709	Concepts in Communication	12	3
CMN810	Communication & Society	12	3 3
CMN811	Communication & Culture	12	3
CMN813	Communication Strategies	12	3
CMN814	Modern Communication Technologies	12	3
CMN821	Advanced Organisational Communication	12	3 3
CMN823	Current Issues in Communication	12	
CMN825	Australian Communication Contexts	12	3

Group C: Other Postgraduate Electives

Subjects may be taken, on approval of the Graduate Studies Co-ordinator, from those normally available to students enrolled in postgraduate level courses offered outside the School of Communication in any tertiary institution.

Group D: Undergraduate Electives in Communication

These are not available for exemption:

Advertising Management Advertising Campaigns Public Affairs Reporting Journalism Ethics & Issues Advanced Public Relations	12 12 12 12 12	3 3 3 3 3
Advanced Public Relations	12	3
	Advertising Campaigns Public Affairs Reporting Journalism Ethics & Issues	Advertising Campaigns12Public Affairs Reporting12Journalism Ethics & Issues12

(Note: These are examples. Others may be available with approval).

Group E: T	hesis/Project/Dissertation		
CMN723	Seminar in Communication Research	12	3
CMN830	Seminar in Communication Readings	12	3
CMN831	Individual Research	12	3
CMN899	Special Topic in Communication	12	- 3
	AND		
CMN950	Thesis/Project	48	
	OR		
CMN910	Dissertation	24	
	AND		
CMN911	Dissertation	24	

Note: A full-time student normally may enrol for no more than four subjects per semester, and a part-time student for no more than two subjects per semester. When enrolling in research subjects from Group E, both full-time and part-time students may enrol in an extra subject, with the permission of the Communication Graduate Board of Studies or its nominee.

MANAGEMENT STRAND

Course Requirements

Students must complete fifteen subjects to a total of 192 credit points, comprised of five core coursework subjects, four project subjects, four major subjects and two elective or special topic subjects.

		Credit Points	Contact Hrs/Wk
	ework Subjects		
	By All Students		-
MNN805 MNN806		12 12	3
MNN807	Current Issues in Australian Management B Research Design & Data Analysis	12	3
MNN808	Management, Technology & Social Change	îź	3 3 3 3 3
MNN815	Case Study Program	12	3
Core Projec	t Subjects		
	By All Students (See Note 1 Below)		_
MNN816	Initial Project in Management	12	3 3
MNN820 MNN830	Applied Research & Design Project & Seminars A	12 12	3
MNN831	Project & Seminars B	24	3
Major Subj	ects		
Normally Ta	ken By All Students (See Note 2 Below)		
MNN811	Policy Analysis	12	3
MNN814	Organisational Economics	12	3
MNN812 MNN813	Organisational Psychology Advanced Marketing Management	12 12	3 3 3 3
	Advanced marketing management	12	5
Electives	De i d		
– Two Subje MNN899	cts Required Special Topic	12	3
	te subjects at QUT or other tertiary institutions.	12	J
0	, , , , , , , , , , , , , , , , , , ,		

Notes

- 1. Students are required to write an original project on an area of interest in the management field. During the first year of the full-time program, or second year of the part-time program, the student should finalise the choice of area. The Management Graduate Studies Board will nominate a supervisor for the research. The culmination of the project, MNN831 Project & Seminar B, is the equivalent of two three-hour-per-week subjects and is undertaken in the final semester of the course.
- 2. In special circumstances and only with the prior agreement of the course director and the Management Graduate Studies Board, one of the major subjects may be substituted by a Masters level subject offered elsewhere in QUT or at another tertiary institution.
- 3. Students may do two electives or an elective and a special topic. The electives may be chosen from subjects offered in other postgraduate programs at QUT or at another tertiary institution.

The special topic elective may be offered by the School of Management from time to time to take advantage of special expertise which may be available for a short period from a visiting lecturer, or to trial a new subject before modifying the normal program.

MNN246 Master of Business Administration

Course Duration: 4 semesters full-time, 8 semesters part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Entry Requirements

A candidate for entry into the Master of Business Administration (MBA) program should normally possess:



- (a) an undergraduate degree qualification from a recognised Australian or overseas institution;
- (b) at least two years appropriate full-time work experience; AND
- (c) an appropriate level of tertiary-level achievement in quantitative methods/statistics. A candidate who has not successfully completed at least one such approved degree-level subject will be required to complete MNN307 Statistical Methods as an elective in the MBA.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk	
Semester 1	(Autumn)			
MNN100 ACN813 MNN106 MNN204	Introduction to Management Accounting Principles Managerial Economics Marketing Methods & Practices	12 12 12 12	3 3 3 3	
Semester 2	(Spring)			
MNN201 MNN203 ACN834 MNN302	Labour-Management Relations Government Business Relations Business Law & Business Ethics People in Organisations	12 12 12 12	3 3 3 3	
Semester 3	(Autumn)			
MNN202 ACN835	Decision Support Systems Financial Management Elective Elective	12 12 12 12	3 3 3 3	
Semester 4	(Spring)			
MNN403 MNN404	Business Policy Applied Research Project Elective Elective	12 12 12 12	3 3 3 3	
Part-Time	Course Structure	Credit Points	Contact Hrs/Wk	
Semester 1	(Autumn)			
MNN100 ACN813	Introduction to Management Accounting Principles	12 12	3 3	
Semester 2	(Spring)			
MNN201 MNN302	Labour-Management Relations People in Organisations	12 12	3 3	
Semester 3	(Autumn)			
MNN106 MNN204	Managerial Economics Marketing Methods & Practices	12 12	3 3	
Semester 4	(Spring)			
MNN203 ACN234	Government Business Relations Business Law & Business Ethics	12 12	3 3	
Semester 5 (Autumn)				
ACN235 MNN202	Financial Management Decision Support Systems	12 12	3 3	



Semester 6	(Spring) Elective Elective	12 12	3 3
Semester 7	(Autumn) Elective Elective	12 12	3 3
Semester 8 MNN404 MNN403	(Spring) Applied Research Project Business Policy	12 12	3 3

Electives may be undertaken across a number of areas, provided that prerequisite requirements are met; alternatively, a student may use the electives to pursue more specialised study in an area of particular interest.

MBA candidates will be permitted to undertake electives from a limited number of advanced undergraduate subjects offered by the Schools of Management, Accountancy and Communication. A small number of Master of Business subjects may also be available as MBA electives.

The Applied Research Project allows the student to demonstrate an ability to plan and execute a significant piece of applied research, or to conduct an independent study of an applied area, with a minimum of supervision.

Exemptions/Substitutions

- (a) A student who has completed QUT's Graduate Diploma in Business Administration (GDBA) will be eligible to apply for MBA exemptions of up to eight subjects. Such exemptions will not be awarded as a whole; rather, they will be granted on a subject by subject basis on the basis of successful previous study.
- (b) An MBA student who has been accorded exemptions will not be permitted to graduate with a GDBA unless he/she actually completes six GDBA/MBA subjects offered by this University.
- (c) An MBA applicant who possesses a Bachelor of Business or other approved undergraduate degree may apply for up to four exemptions and four substitutions provided that the results obtained in the similar undergraduate subjects are at least at the level of credit (or 5.0 on a 1.0 7.0 scale) in each case.
- (d)All exemptions will be dealt with in terms of QUT policies.

Relationship between MBA and GDBA

Following the successful completion of eight MBA subjects (including at least six of the twelve compulsory subjects), students may elect either to discontinue enrolment and to graduate with a GDBA, or to pursue eight further subjects in order to complete the MBA. Students who choose to graduate with a GDBA will not retain a place in the MBA; they will need to compete again for admission if they wish to complete the MBA at a later date.

ACM174 Graduate Diploma in Advanced Accounting

Conrse Duration: 2 semesters full-time, 4 semesters part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

BUSINESS

Entry Requirements

A degree or a diploma from a recognised tertiary institution, with an appropriate major in Accounting, provided that in the case of a diploma, additional work may be required.

SPECIAL ENTRY

An applicant who does not meet the requirements for normal entry may present documentary evidence of qualifications, experience, and other relevant information for special consideration.

Students may be required to take one or more undergraduate subjects in order to make good any deficiency in their qualifications to enter the postgraduate course.

Course Requirements

The student must complete eight semester subjects (96 credit points total). A minimum of six subjects must be selected from Lists 1, 2 and 3. Up to two School of Management postgraduate subjects may be selected from List 4.

Schedule of Subjects

All subjects are twelve credit points, approximately three hours of formal contact per week.

List 1

			•	
		CCOUNTING Financial Accounting Honours Advanced Company Accounting International Accounting Computer Auditing Audit Sampling	ACN123 ACN125 ACN126 ACN127 ACN999	Internal Auditing Auditing Standards & Practice Financial Reporting External Reporting Issues Special Topic - Public Accounting
	List 2			
	MANAGE ACN151 ACN152 ACN153 ACN155 ACN156	RIAL ACCOUNTING/FINANCE Finance Honours Advanced Capital Budgeting International Finance Financial Modelling Financial Risk Management	ACN231 ACN232 ACN233 ACN998	Managerial Accounting Honours Managerial Accounting Issues A Managerial Accounting Issues B Special Topic - Managerial Accounting/Finance
	List 3			
,	COMMER ACN119 ACN171 ACN172 ACN174 ACN175	CIAL LAW Company Secretarial Practice Advanced Taxation International Tax Liquidations & Receiverships Commercial Law Honours	ACN176 ACN177 ACN178 ACN997	Indirect Taxation Taxation Policy Honours Taxation & Professional Practice Special Topic - Commercial Law
	List 4			
		MENT SUBJECTS Government Business Relations	MNN302	People in Organisations $A \in \mathcal{N}^{\vee}$

COMMER	RCIAL LAW			
ACN119	Company Secretarial Practice	ACN176	Indirect Taxation	
	Advanced Taxation	ACN177	Taxation Policy Honours	
ACN172	International Tax	ACN178	Taxation & Professional Practice	
ACN174	Liquidations & Receiverships	ACN997	Special Topic - Commercial Law	
ACN175	Commercial Law Honours			
ACN171 ACN172 ACN174	Advanced Taxation International Tax Liquidations & Receiverships	ACN178	Taxation & Professional Practice	

MANAGI	EMENT SUBJECTS			
MNN203	Government Business Relations	MNN302	People in Organisations	ACNIZO
MNN204	Marketing Methods & Practices	MNN403	Business Policy	ACP653

Students should consult the School of Accountancy for details of subjects being offered in the current year. All programs of study must be approved by the Head, School of Accountancy, or the chairperson, Graduate Studies Committee.

Transition Arrangements

Students who have completed the professional year modules at OUT prior to 1989 are required to complete three other subjects as per the rules above. Students commencing the PY and the GDAA from 1989 onwards must complete under the new rules. Students in doubt about their status should consult the head of Postgraduate Studies.

CMM244 Graduate Diploma in Communication Practice

Course Duration: 4 semesters part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Entry Requirements

- (a) A degree or diploma from a recognised tertiary institution, with the provision that diploma graduates may be required to undertake additional work at the discretion of Head of School of Communication or his/her nominee; AND
- (b) for students specialising in journalism, placement in a relevant occupation as approved by Head of School of Communication or his/her nominee.

SPECIAL ENTRY

A limited number of places will be available to practitioners in the relevant professions who, while possessing no formal degree, can demonstrate and document significant experiential grasp of their professions. These candidates will be senior members of their profession.

QUT Communication graduates, if they enrol in the graduate diploma course, must select an area different from their major strand as undergraduates.

An applicant who does not meet the requirements for normal entry may present documentary evidence of qualifications, experience, and other relevant information for special consideration.

Part-Time	Credit Points				
Core Subjec	ts	/			
CMP007	Communication Concepts PLUS Group A subjects OR Group B subjects	12 🗸			
Group A (Fo	or Communication Graduates)				
CMN710	Mass Communication A	12			
CMN711	Mass Communication B	12			
Group B (For Non-Communication Graduates)					
CMP421	National Media Institutions	12			
CMP562	Advanced Text Analysis	12			

In consultation with the relevant Strand Co-ordinator, select five subjects from ONE of the following groups (subject to sequencing requirements):

Advertising CMB241 CMB363 CMB364 CMB541 CMB542 CMB544 CMB544	Introduction to Advertising Advertising Copywriting (Print) Advertising Copywriting (Electronic) Media Strategy Advertising Management Direct Response Advertising Retail Advertising	12 12 12 12 12 12 12
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CMB641	Advertising Campaigns	12
Audio-visual CMB163	Communication Introduction to Audio-visual Communication	12
CMB464 CMB592 CMB561 CMB662	Video Production Techniques Film & Video Tape Editing Film & Television Scriptwriting Audio-visual Seminar	12 12 12 12
Fundraising		10
CMP352 MNB253	Fundraising Principles Introductory Marketing	12 12
CMB544	Direct Response Advertising	12
CMP590	Fundraising Campaigns	12
	AND	
CMB552	Publicity & Promotion - Print	12
	OR	
CMB351	Community Relations	12
Journalism		
CMB360	Reporting Principles	12
CMB462	Magazine & Feature Writing	12
CMB673	Journalism Ethics & Issues PLUS	12
CMB371	Sub-editing & Layout	12
CMB671	Public Affairs Reporting	12
	OR	
CMB571	Radio/TV Journalism I	12
CMB672	Radio/TV Journalism II	12
Public Relat		
CMB452	Introduction to Public Relations	12
CMB552	Publicity & Promotion (Print)	12
CMB553	Publicity & Promotion (Electronic)	12
CMB451	Industrial Press Community Relations	12 12
CMB351 CMB651	Advanced Public Relations	12
CMB656	Public Relations Consulting &	12
CIIIDOOO	Management	12
CMB422	Professional Speech Writing	12
Organisation	nal Communication	
CMB163	Introduction to Audio-visual	
	Communication	12
CMB014	Writing & Communication Theory	12
CMB012	Speech Communication	12
CMB321 CMP125	Communication in Small Groups	12 12
CIVIF 125	Organisational Communication	12

Note: Except in exceptional circumstances, and with the approval of the Dean of Faculty, a part-time student may not enrol for more than two subjects in any one semester.

Prerequisites for all subjects with CMB code numbers may be waived for students in the Graduate Diploma in Communication Practice at the discretion of the Head of School or his/her nominee.

MNM155 Graduate Diploma in Business Administration

There is no annual intake to the GDBA and no provision for enrolment in this course. However, students who have gained a place in the MBA program may, following the successful completion of eight MBA subjects (including at least six of the twelve



compulsory subjects), elect to discontinue their enrolment and to graduate with a GDBA. Students who choose to graduate with a GDBA will not retain a place in the MBA; they will need to compete again for admission to the MBA if they wish to complete the MBA at a later date.

ACJ151 Bachelor of Business - Accountancy

Note: Special requirements for all degree courses in the Faculty of Business:

- (a) Except in exceptional circumstances, and with the approval of the Dean of Faculty, a full-time student may enrol only in subjects selected from those contained in the normal course program for Semesters 1 and 2 in the first year of study. Similarly, a part-time student may select subjects only from those listed for Semesters 1, 2, 3 and 4 in the first two years of study.
- (b) Except with the approval of the Dean, a student must enrol for more than one subject in any semester.

Course Duration: 6 semesters full-time, 12 semesters part-time

Total Credit Points: 288

Staudard Credit Points/Full-Time Semester: 48

Full-Time (Course Structure	Credit Points	Contact Hrs/Wk
ACCOUNT	'ING STRAND		
Semester 1	(Autumn)		
ACB110 ISB392 MNB151 MAB173	Accounting I Business Computing Microeconomic Analysis Quantitative Methods	12 12 12 12	4 4 3 3
Semester 2	(Spring)		
ACB111 ACB140 MNB251 MNB252	Accounting II Business Law Macroeconomic Analysis Business Statistics	12 12 12 12	4 4 3 3
Semester 3	(Autumn)		
ISB492 ACB240 ACB210 CMB105	Computerised Accounting Systems Law of Business Associations Company Accounting Business Communication	12 12 12 12	4 4 3
Semester 4	(Spring)		
MNB412 ACB230 ACB220	Management & Organisations Financial Management I Cost Accounting Strand Elective	12 12 12 12	3 4 4 3-4
Semester 5	(Autumn)		
ACB340 ACB321 ACB331 ACB311	Taxation Law & Practice Managerial Accounting Financial Management II Auditing	12 12 12 12	4 4 3

Semester ((Spring)		
ACB310	Accounting Theory & Practice Strand Elective Strand Elective General Elective	12 12 12 12	4 3-4 3-4 3-4
BUSINES	S COMPUTING STRAND		
	(Autumn)		
ACB110	Accounting I	12	4
MNB151	Microeconomic Analysis	12	3
MAB173 CSB181	Quantitative Methods Introduction to Computer Science	12 12	3 3 3
Semester 2	2 (Spring)		
ACB111	Accounting II	12	4
MNB251	Macroeconomic Analysis	12	3
ISB392	Business Computing Business Statistics	12 12	4
MNB252		12	3
	3 (Autumn)		
ISB492	Computerised Accounting Systems	12	4 4
ACB140 ISB283	Business Law Database & Procedural Languages	12 12	4
CMB105	Business Communication	12	3 3
Semester (4 (Spring)		
ISB290	Information Systems Analysis &	12	2
INB285	Design II Data Communications	12 12	3
ACB220	Cost Accounting	12	4
MNB412	Management & Organisations	12	3
Semester :	5 (Autumn)		
ISP381	Advanced Information Systems OR	12	3
ISP383	Office Information Systems	12	3 3
ACB311	Auditing	12	
ACB210	Company Accounting	12	4
ACB240	Law of Business Associations	12	4
Semester			_
ACB360	Computer Security & Audit	12	3
ACB310 ACB230	Accounting Theory & Practice Financial Management I	12 12	4
ACB321	Managerial Accounting	12	4
BANKING	G AND FINANCE STRAND		
Semester	1 (Autumn)		
ACB110	Accounting I	12	4
ISB392	Business Computing	12	4
MNB151 MAB173	Microeconomic Analysis Quantitative Methods	12 12	3
Semester ACB111	Accounting II	12	4
MNB251	Macroeconomic Analysis	12	3
ACB140	Business Law	12	4
MNB252	Business Statistics	12	3
Semester	3 (Autumn)		
ISB492	Computerised Accounting Systems	12	4
ACB240	Law of Business Associations	12	4

BUSINESS

ACB210 CMB105	Company Accounting Business Communication	12 12	4 3		
Semester 4 MNB412 ACB230 ACB220 ACB231	(Spring) Management & Organisations Financial Management I Cost Accounting Australian Capital Markets	12 12 12 12	3 4 4 3		
Semester 5 ACB351 ACB350 ACB340 ACB331	(Autumn) Financial Institutions - Management Financial Institutions - Lending Taxation Law & Practice Financial Management II	12 12 12 12	4 3 4 4		
Semester 6 ACB310 ACB336	(Spring) Accounting Theory & Practice International Finance Strand Elective Strand Elective	12 12 12 12	4 3 3-4 3-4		
Part-Time	Course Structure	Credit Points	Contact Hrs/Wk		
ACCOUNT Semester 1 ACB110 MNB151	ING STRAND (Autumn) Accounting I Microeconomic Analysis	12 12	4 3		
Semester 2 ACB111 MNB251		12 12	4 3		
Semester 3 ISB392 MAB173	(Autumn) Business Computing Quantitative Methods	12 12	4 3		
Semester 4 ACB140 MNB252	Business Law Business Statistics	12 12	4 3		
Semester 5 CMB105 ISB492	Business Communication Computerised Accounting Systems	12 12	3 4		
Semester 6 MNB412 ACB230	Management & Organisations Financial Management I	12 12	3 4		
Semester 7 ACB240 ACB210	(Autumn) Law of Business Associations Company Accounting	12 12	4 4		
	Semester 8 (Spring) Strand Elective 12 3-4				
ACB220 Semester 9	Cost Accounting	12	4		
ACB311 ACB340	Auditing Taxation Law & Practice	12 12	3 4		



~ .	A			
Semester 1 ACB310	0 (Spring) Accounting Theory & Practice Strand Elective	12 12	4 3-4	
Semester 1	1 (Autumn)			
ACB321 ACB331	Managerial Accounting Financial Management II	12 12	4 4	
Semester 1	2 (Spring)			
	Strand Elective General Elective	12 12	3-4 3-4	
BUSINESS	COMPUTING STRAND			
Semester 1	(Autumn)			
ACB110	Accounting I	12	4	
MNB151	Microeconomic Analysis	12	3	
Semester 2	(Spring)			
ACB111	Accounting II	12	4	
MNB251	Macroeconomic Analysis	12	3	
Semester 3	(Antomo)			
MAB173	Quantitative Methods	12	3	
CSB181	Introduction to Computer Science	12	3	
Semester 4	(Spring)			
ISB392	Business Computing	12	4	
MNB252	Business Statistics	12	3	
Semester 5	(Autumn)			
CMB105	Business Communication	12	3	
ISB492	Computerised Accounting Systems	12	4	
Semester 6	(Spring)			
MNB412 ISB290	Management & Organisations Information Systems Analysis & Design II	12 12	3 3	
Semester 7	(Autumn)			
ACB140	Business Law	12	4	
ISB283	Database & Procedural Languages	12	3	
Semester 8	(Spring)			
INB285	Data Communications	12	4	
ACB220	Cost Accounting	12	4	
Semester 9	(Autumn)			
	Advanced Information Systems			
	OR		_	
ISP383 ACB311	Office Information Systems	12 12	3	
ACB311	Auditing	12	5	
Semester 10 (Spring)				
ACB310	Accounting Theory & Practice	12	4	
ACB360	Computer Security & Audit	12	3	
Semester 1	1 (Autumn)			
ACB240	Law of Business Associations	12	4	
ACB210	Company Accounting	12	4	
Semester 12 (Spring)				
ACB230	Financial Management I	12	4	

ACB321	Managerial Accounting	12	4
BANKING Semester 1	AND FINANCE STRAND (Autumn)		
ACB110 MNB151	Accounting I Microeconomic Analysis	12 12	4 3
Semester 2	(Spring)		
ACB111 MNB251	Accounting II Macroeconomic Analysis	12 12	4 3
Semester 3	(Autumn)		
ACB140 MAB173	Business Law Quantitative Methods	12 12	4 3
Semester 4			
CMB105 MNB252	Business Communication Business Statistics	12 12	3 3
Semester 5	(Autumn)		
ISB392 ISB492	Business Computing Computerised Accounting Systems	12 12	4 4
Semester 6	(Spring)		
MNB412 ACB220	Management & Organisations Cost Accounting	12 12	3 4
Semester 7	(Autumn)		
ACB240 ACB210	Law of Business Associations Company Accounting	12 12	4 4
Semester 8	(Spring)		
ACB230 ACB231	Financial Management I Australian Capital Markets	12 12	4 3
Semester 9	(Autumn)		
ACB351 ACB331	Financial Institutions - Management Financial Management II	12 12	4 4
Semester 10			
ACB310 ACB336	Accounting Theory & Practice International Finance	12 12	4 3
Semester 11	l (Autumn)		
ACB350 ACB340	Financial Institutions - Lending Taxation Law & Practice	12 12	3 4
Semester 12	2 (Spring)		
	Strand Elective Strand Elective	12 12	3~4 3-4

Recognition by Professional Bodies

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Students completing the Baehelor of Business - Accountancy degree satisfy the academic requirements for membership of various professional associations and statutory bodies.

The degree is recognised for membership purposes by the following associations and boards: Australian Society of Accountants (ASA) (provisional membership is available immediately on completion of the degree); Institute of Chartered Accountants in Australia (ICA); Public Accountants Registration Board and Companies Auditors Board (PARB and CAB); Tax Agents Registration Board (TARB); Institute of Chartered To satisfy the academic requirements for Associate level membership of the ASA, graduates must have completed the accounting strand or the business computing strand; or the banking and finance strand including one of the following sequences of subjects:

FINANCE ACB336 International Finance ACB231 Australian Capital Markets ACB332 Portfolio & Security Analysis PLUS ONE OF ACB659 Financial Modelling ACB345 Financial Institutions - Law ACB335 Insurance Risk Management. BANKING

ACB336 International Finance ACB231 Australian Capital Markets ACB350 Financial Institutions - Lending PLUS ONE OF ACB345 Financial Institutions - Law ACB352 Comparative Financial Systems

To satisfy the academic requirements for CPA level membership of the ASA and membership of the ICA, graduates must have completed the accounting strand; the business computing strand, and then undertaken a further subject ACB340 Taxation Law & Practice; the banking and finance strand, including ACB311 Auditing as an elective.

CMJ153 Bachelor of Business – Communication*

Course Duration: 6 semesters full-time, 12 semesters part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Full-Time Course Structure		Credit Points	Contact Hrs/Wk	
ADVERTI	SING STRAND			
Semester 1	(Autumn)			
CMB014 CMB012 CMB111 CMB359	Writing & Communication Theory Speech Communication Sociology Newswriting	12 12 12 12	4 3 3 3	
Semester 2	(Spring)			
CMB211 CMB163	Communication Research Introduction to	12	3	
MNB253	Audio-visual Communication Introductory Marketing	12 12	3 3 3	
CMB241	Introduction to Advertising	12	3	
Semester 3				
CMB423 CMB363	Australian Media Institutions Advertising Copywriting - Print	12 12	3 3 3 3	
CMB541 CMB442	Media Strategy Motivation & Ethics in Advertising	12 12	3 3	
Semester 4 (Spring)				
CMB562	Media Text Analysis Core Option 1**	12 12	3 3 3 3	
	Elective 1 Elective 2	12 12	3 3	

*See note, page 84. ** See page 90.





CMB012 CMB111 CMB359	Speech Communication Sociology Newswriting	12 12 12	3 3 3
Semester 2	(Spring)		
CMB211	Communication Research	12	3
CMB163	Introduction to	12	5
	Audio-visual Communication	12	3
CMB321	Communication in Small Groups	12	3 3 3
CMB452	Introduction to Public Relations	12	3
Semester 3	(Autumn)		
CMB423	Australian Media Institutions	12	3
CMB161	Literature & Communication	12	3
CMB464	Video Production Techniques	12	3 3 3 3
CMB552	Publicity & Promotion - Print	12	3
Semester 4	(Spring)		
CMB451	Industrial Press	12	3
CMB212	Australian Studies	12	3 3 3 3
CMB562	Media Text Analysis	12	3
CMB553	Publicity & Promotion - Electronic	12	3
Semester 5	(Autumn)		
CMB422	Professional Speechwriting	12	3
CMB651	Advanced Public Relations	12	3
	Elective 1	12	3 3 3 3
	Elective 2	12	3
Semester 6	(Spring)		
CMB351	Community Relations	12	3
CMB666	PR Consulting & Management	12	3 3 3
	Elective 3	12	3
	Elective 4	12	3
Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
		1 01110	2010/111
	SING STRAND		
Semester 1	· · ·		
CMB014 CMB111	Writing & Communication Theory Sociology	12 12	4 3
CMDTT	Sociology	12	5
Semester 2	l (Spring)		
CMB012	Speech Communication	12	3
CMB359	Newswriting	12	3
Semester 3	(Autumn)		
CMB211	Communication Research	12	3
MNB253	Introductory Marketing	12	3 3
Semester 4	(Spring)		
CMB423	Australian Media Institutions	12	3
CMB442	Motivation & Ethics in Advertising	12	3
Semester 5	(Autumn)		
CMB163	Introduction to		
		12	7
CMB241	Audio-visual Communication Introduction to Advertising	12	3 3

Semester 6 CMB363	(Spring) Advertising Copywriting - Print Core Option 1*	12 12	3 3
Semester 7 CMB562	(Autumn) Media Text Analysis Elective 1	12 12	3 3
Semester 8 CMB541	(Spring) Media Strategy Core Option 2*	12 12	3 3
Semester 9 CMB544	(Autumn) Direct Response Advertising Elective 2	12 12	3 3
Semester 10 CMB542	0 (Spring) Advertising Management Elective 3	12 12	3 3
Semester 11 CMB641	l (Autumn) Advertising Campaigns Core Option 3*	12 12	3 3
Semester 12	2 (Spring) Core Option 4*- Elective 4	12 12	3 3
JOURNALI	SM STRAND		
Semester 1			
CMB014 CMB111	Writing & Communication Theory Sociology	12 12	4 3
Semester 2 CMB012 CMB359	(Spring) Speech Communication Newswriting	12 12	3 3
Semester 3 CMB321 CMB360	(Autumn) Communication in Small Groups Reporting Principles	12 12	3 3
Semester 4	(Spring)		
CMB423 CMB462	Australian Media Institutions Magazine & Feature Writing	12 12	3 3
Semester 5	(Autumn)		
CMB163	Introduction to Audio-visual Communication	12	3
CMB211	Communication Research	12	3
Semester 6	(Spring)		
CMB464	Video Production Techniques	12	3
CMB161	Literature & Communication	12	3

* Core Options: Students must take four out of the following subjects: CMB212 Australian Studies CMB321 Communication in Small Groups CMB521 Communication & Public Opinion

CMB161Literature & CommunicationCMB464Video Production Techniques



Semester 7	(Autumn)		
CMB562 CMB571	Media Text Analysis Radio/Television Journalism I	12 12	3 3
Semester 8	(Spring)		
CMB311	Contemporary Social Issues Elective 1	12 12	3 3
Semester 9	(Autumn)		
CMB212	Australian Studies Elective 2	12 12	3 3
Semester 1	0 (Spring)		
CMB371 CMB672	Sub-editing & Layout Radio/Television Journalism II	12 12	3 3
Semester 1	1 (Autumn)		
CMB671	Public Affairs Reporting	12	3
CMB673	Journalism Ethics & Issues	12	3
Semester 1	2 (Spring)		
	Elective 3	12	3
	Elective 4	12	3
	ELATIONS STRAND		
Semester 1			
CMB014 CMB111	Writing & Communication Theory Sociology	12 12	4
Semester 2	2 (Spring)		
CMB012 CMB359	Speech Communication Newswriting	12 12	3 3
Semester 3	(Autumn)		
CMB321 CMB452	Communication in Small Groups Introduction to Public Relations	12 12	3 3
Semester 4	(Spring)		
CMB423	Australian Media Institutions	12	3
CMB161	Literature & Communication	12	3
Semester 5	(Autumn)		
CMB163	Introduction to		
CMB211	Audio-visual Communication Communication Research	12 12	3 3
Semester (6 (Spring)		
CMB464 CMB552	Video Production Techniques Publicity & Promotion - Print	12 12	3 3
Semester '	7 (Autumn)		
CMB562	Media Text Analysis	12	3
CMB553	Publicity & Promotion - Electronic	12	3
Semester a	8 (Spring)		
CMB422	Professional Speechwriting	12	3
	Elective 1	12	3
Semester	9 (Autumn)		
CMB451	Industrial Press	12	3 3
CMB212	Australian Studies	12	3

BUSINESS

Semester 1	0 (Spring)		
CMB651	Advanced Public Relations Elective 2	12 12	3
Semester 1			5
CMB351 CMB666	Community Relations PR Consulting & Management	12 12	3 3
Semester 12 (Spring)			
	Elective 3 Elective 4	12 12	3

MNJ152 Bachelor of Business - Management*

Course Duration: 6 semesters full-time, 12 semesters part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Requirements

Students are required to complete: fourteen core subjects as listed below; a major which consists of six specified subjects in one of the specialist areas of Economics, Human Resource Management or Marketing; four or more elective subjects such that at least 48 credit points are obtained through elective study. Electives may be chosen from any degree courses, subject to prerequisite requirements and availability of the subject in the timetable. Elective subjects may be chosen in such a way as to allow students to complete a sub-major in an area of specialisation which is different from that chosen for the major specialisation. A brochure containing rules relating to sub-major study and a list of possible sub-majors and electives will be available from the School of Management in January 1990.

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
MNB151	Microeconomic Analysis OR	12	3
MNB251	Macroeconomic Analysis	12	3
MNB152	Computer Data Analysis	12	3 3 3 3
MNB153	Analysis & Methodology in Management	t 12	3
MNB154	Psychology	12	3
Semester 2	(Spring)		
MNB151	Microeconomic Analysis OR	12	3
MNB251	Macroeconomic Analysis	12	3
MNB252	Business Statistics	12	3 3 3
MNB253 MNB254	Introductory Marketing Personnel Management &	12	3
	Industrial Relations	12	3
Semester 3	(Autumn)		
	Major	12	3
	Major or elective**	12	3 3 3
ACB180	Accounting for Managers	12	3

* See note, page 84.

** Students wishing to complete a sub-major or take electives in the Managerial Accountancy or Finance strands should select ACB110 Accounting I as their first elective.



MNB351	Organisational Analysis & Management	12	3
Semester 4	(Spring)		
	Major	12	3
	Major or elective	12	3 3
ACB230	Financial Management I	12	4
MNB451	Government, Business & Law	12	4
Semester 5	(Autumn)		
MNB551	Operations Management	12	3
	Major	12	3
	Elective	12	3333
	Elective	12	3
	OR		
MNB551	Operations Management	12	3
	Major	12	3333
	Major	12	3
	Elective	12	3
Semester 6	(Spring)		
MNB651	Managerial Strategy	12	3
	Major	12	3333
	Elective	12	3
	Elective	12	3
	OR		
MNB651	Managerial Strategy	12	3
	Elective	12	333
	Elective	12	3
	Elective	12	3

Human Resource Management Major

Students wishing to study their major in HRM are required to complete the following subjects, in addition to the Core Program:

- MNB361 Human Resources & the Organization
- MNB461 Foundation HR Competencies
- MNB561 Independent Study HRM

Plus three of the following:

- MNB362 Recruitment & Selection
- MNB363 Industrial Relations I
- MNB364 Personnel Administrative Systems/
- Occupational Health & Safety
- MNB661 Interviewing & Counselling
- MNB462 Advanced Organization Behaviour
- MNB463 Organization Development

Marketing Major

Students wishing to study their major in Marketing are required to complete the following subjects, in addition to the Core Program:

- MNB391 Marketing Management
- MNB392 Consumer Behaviour
- MNB492 Services Marketing
- MNB491 Retailing Management I
- MNB592 Marketing Research
- MNB691 Strategic Marketing

Economics Major

Note: Students must complete ACB180 Accounting for Managers I and MNB252 Business Statistics before beginning their Economics major.

Students wishing to study their major in Economics are required to complete the following subjects, in addition to the Core Program:



MNB371 MNB372 MNB471 MNB472 MNB571 MNB572	Microeconomic Theory Macroeconomic Theory Microeconomic Policy Macroeconomic Policy Advanced Economic Theory & Policy Applied Econometrics	3 3 4 5 5	5 6 6 7 7
Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
MNB153 MNB154	Analysis & Methodology in Managemen Psychology	t 12 12	3 3
Semester 2	(Spring)		
MNB254 MNB151	Personnel Management & Industrial Relations Microeconomic Analysis	12 12	3 3
	-		
Semester 3 MNB152	(Autumn) Computer Data Analysis	12	3
MNB251	Macroeconomic Analysis	12	3
Semester 4			
MNB253 MNB252	Introductory Marketing Business Statistics	12 12	3 3
Semester 5	(Autumn)		
Two of the fo ACB180 MNB351	ollowing: Accounting for Managers Organisational Analysis & Management Major Major or Elective*	12 12 12 12	3 3 3 3
Semester 6	(Spring)		
Two of the fo	bllowing:		
ACB230 MNB451	Financial Management I Government, Business & Law	12 12	4 4
	Major Major or Elective	12 12	3 3
Semester 7	(Autumn)		
Two of the fo MNB351	ollowing: Organisational Analysis & Management	12	3
ACB180	(if not completed in Semester 5) Accounting for Managers	12	3
	(if not completed in Semester 5) Major or Elective	12	3
	Major or Elective	12	3
Semester 8	(Spring)		
Two of the fo		10	4
MNB451	Government, Business & Law (if not completed in Semester 6)	12	4
ACB230	Financial Management I (if not completed in Semester 6)	12	4
	Major or Elective Major or Elective	12 12	3
* Students wi	ishing to complete a sub-major or take ele		

* Students wishing to complete a sub-major or take electives in the Managerial Accountancy or Finance Strands should select ACB110 Accounting I as their first elective.

Semester 9	(Autumn)		
Two of the fo	llowing:		
MNB551	Operations Management	12	3 3 3
	Major Major of Elective	12 12	3
	Major or Elective	12	3
Semester 10	0 (Spring)		
Two of the fo	llowing:		
MNB651	Managerial Strategy	12	3 3 3
	Major	12	3
	Major or Elective	12	3
Semester 1	l (Autumn)		
Two of the fo	llowing:		
MNB551	Operations Management	12	3
	(if not completed in Semester 9)	10	2
	Major Major	12 12	3 3
	Major or Elective	12	3
Semester 12	2 (Spring)		
Two of the fo	ollowing:		
MNB651	Managerial Strategy	12	3
	(if not completed in Semester 10)		
	Major Major	12	3 3
	Major or Elective	12	3

Recognition by Professional Bodies

Students of the Management degree may, as a result of their choice of area of major study or as a result of their choice of electives, meet the academic requirements of membership of a number of professional bodies.

Students studying an Economics or Marketing major may also choose electives in such a way as to qualify for the Diploma of Export.

Details of these requirements can be found in a brochure which will be available from the School office in January 1990.

MNJ154 Bachelor of Business – Public Adminstration*

Course Duration: 6 semesters full-time, 12 semesters part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Requirements

Students must complete the eighteen core subjects listed below. In addition, they must complete a sub-major consisting of six subjects chosen from any approved degree program at the University. At least four of the six subjects must come from one approved area of study. Of those four subjects, at least three must be at advanced level. Electives may be chosen from any degree course, subject to prerequisite requirements and availability of the subject in the timetable. The approval of the Course Co-ordinator must be gained for each student's sub-major.

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*See note, page 84.

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Full-Time (Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
MNB183 MNB184	Australian National Government A Introduction to Administrative &	12	4
MNB251 ACB383	Political Analysis Macroeconomic Analysis Accountancy for Administrators*	12 12 12	3 3 3
ACB110	OR Accounting I*	12	4
Semester 2	(Spring)		
MNB385	Administrative Theory	12	4
MNB151	Microeconomic Analysis	12	3
MNB282	State Government	12	3 3
CMB119	Sociology for Professionals	12	3
Semester 3	(Autumn)		
MNB382	Administration Research I	12	3
MNB516	Organisational Sociology	12	3 3 4 3
MNB482	Local Government	12	4
11110102	Elective	12	3
Semester 4	(Spring)		
MNB484	Public Personnel Management	12	4
ISB156	Management Information Systems	12	4
MNB483	Administration Analysis	12	3
DIRED 105	Elective	12	4 3 3 3
Semester 5 (Autumn)			
MNB588		12	4
ACB381	Public Policy Process I Public Administrative Law	12	4
ACD301	Elective	12	2
	Elective	12	3 3 3
Semester 6	(Spring)		
		10	4
MNB687 MNB582	Public Policy Process II Financial Administration	12 12	4
MINDJ62	Elective	12	2
	Elective	12	4 3 3 3
		.	-
Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
	Australian National Government A	12	4
MNB184	Introduction to Administrative &	.2	•
	Political Analysis	12	3
Semester 2	(Spring)		
MNB282	State Government	12	3
MNB251	Macroeconomic Analysis	12	3 3
Semester 3	(Autumn)		
MNB482		10	4
MNB382	Local Government Administration Research I	12 12	4
		12	5
Semester 4			
CMB119	Sociology for Professionals	12	3
* Students wi	ishing to progress with Accountancy su	bjects should stu	udy ACB110.



MNB483	Administration Analysis	12	3
Semester 5	(Autumn)		
MNB151 ACB161	Microeconomic Analysis Accountancy for Administrators* OR	12 12	3 3
ACB110	Accounting I*	12	4
Semester 6	(Spring)		
MNB385 ISB156	Administrative Theory Management Information Systems	12 12	4 3
Semester 7	(Autumn)		
MNB516	Organisational Sociology Elective	12 12	3 3
Semester 8	(Spring)		
MNB484	Public Personnel Management Elective	12 12	4 3
Semester 9	(Autumn)		
MNB588	Public Policy Process I Elective	12 12	4 3
Semester 1	0 (Spring)		
MNB582	Financial Administration Elective	12 12	3 3
Semester 12	l (Autumn)		
ACB381	Public Administrative Law Elective	12 12	3 3
Semester 12	2 (Spring)		
MNB687	Public Policy Process II Elective	12 12	4 3
Sub - Majo			
Examples of : International Public Admir		Personnel Manag Industrial Relatio	

Computing

Public Relations

Tourism Management. Students wishing to meet the requirements for the Queensland Local Government Clerk's Certificate must take the six subjects specified. Please contact the Course Co-ordinator for details.

Advertising

Local Government Administration

Public Administration Electives

Electives include:

Accountancy

Journalism

MNB504	International Politics & Business
MNB686	Government Business
MNB485	Public Enterprise
MNB584	Local Government Administrative Practice I
MNB684	Local Government Administrative Practice II
MNB281	Political Behavior
MNB998	Special Topic in Public Policy e.g., Agriculture, Manufacturing, Social Welfare,
	Education, External Affairs
MNB586	Comparative Politics
MNB683	Comparative Administration

*Students wishing to progress with Accountancy subjects should study ACB110.



Subjects Ineligible for Credit

The following subjects are not eligible for credit toward the Bachelor of Business - Public Administration course:

ACB112	Accounting	Decisions IA

- MNB133 General Economics
- CMB131 **Business & Professional Speaking**
- CMB132Business & Professional WritingCMB105Business Communication
- CMB211 Introduction to Social Enquiry

MNJ179 Bachelor of Business - Health Administration*

Course Duration: 6 semesters full-time, 12 semesters part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

HEALTH ADMINISTRATION STRAND

		Credit Points	Contact Hrs/Wk	
Semester 1 MNB330 MNB154	(Autumn) Australian Health Industry Psychology	12 12	3 3	
Semester 2 (Spring)				
MNB254	Personnel Management & Industrial Relations	12	2	
MNB251	Macroeconomic Analysis	12	3 3	
Semester 3 (Autumn)				
ACB383	Accountancy for Administrators OR	12	3	
ACB110	Accounting I	12	4	
MNB153	Analysis & Methodology in Managemen	t 12	3	
Semester 4 (Spring)				
ACB140 MNB151	Business Law Microeconomic Analysis	12 12	4	
	-		9	
Semester 5 MNB331	Health Care Economics I	12	3	
ISB392	Business Computing	12	4	
Semester 6 (Spring)				
MNB471	Microeconomic Policy	12	3	
MNB618	Health Computer Systems	12	4	
Semester 7	(Autumn)			
MNB382 LWS001	Administration Research I Medicine & the Law	12 12	3	
		12	3	
Semester 8	· · ·	10	2	
MNB430	Applied Health Care Analysis	12	3	
*See note, page 84.				

*See note, page 84.



ACB280	Health Administration Finance	12	3	
Semester 9	(Autumn)			
MNB351	Organisational Analysis & Manageme Elective	ent 12	3	
Somestor 1	(Coring)			
Semester 10 MNB231	Government Economic Policy Elective	12	3	
Somester 1	1 (Autuma)			
Semester 1 MNB505 MNB543	Health Management I Health Services Planning	12 12	3 3	
Competen 1	$\mathbf{P}(\mathbf{C}_{n-1}, \mathbf{r})$			
Semester 12 MNB605 MNB534	(Spring) Health Management II Health Services Evaluation	12 12	3 3	
MEDICAL	RECORD ADMINISTRATION ST	ΓΡΑΝΓι*		
			_	
Full-Time (Course Structure	Credit	Contact	
		Points	Hrs/Wk	
Competent 1	(A			
Semester 1				
MNB330	Australian Health Industry	12	3 4	
PNB261	Anatomy & Physiology I	12	4	
MNB154	Psychology	12	3	
MNB153	Analysis & Methodology in Managem	nent 12	3	
Semester 2	(Spring)			
		10	2	
MNB319 PNB262	Medical Record Administration I	12 12	3 4	
MNB320	Anatomy & Physiology II Medical Terminology	12	3	
MNB254	Personnel Management &	12	5	
WIND254	Industrial Relations	12	3	
	industrial relations	12	5	
Semester 3	(Autumn)			
LWS001	Medicine & the Law	12	3	
MNB382	Administration Research I	12	3	
MSB761	Fundamentals of Medicine I	12	3 3 3 3	
MNB419	Medical Record Administration II	12	3	
0	(0.1.)			
Semester 4				
MNB430	Applied Health Care Analysis	12	3	
MNB151	Microeconomic Analysis OR	12	3	
MOD740	Elective	12	2	
MSB762	Fundamentals of Medicine II	12	3	
MNB519	Medical Record Administration III	12	3	
Semester 5	(Autumn)			
MNB543	Health Services Planning	12	3	
	C C			
* Note: Students in the Medical record Administration Strand are required to study: MNB151 Microeconomic Analysis AND MNB331 Health Care Economics I OR ACB383 Accountancy for Administrators AND				
ACB280 Has	Ith Administration Finance			

BUSINESS

ACB383 Accountancy for Administrators ACB280 Health Administration Finance

Medical record Administration students who wish to gain expertise in general health administration are strongly advised to complete all four subjects, undertaking the alternative pair as electives.

MNB331	Health Care Economics I	12	3
MNB619 ISB392	OR Medical Record Administration IV Business Computing	12 12	3 4
	OR Elective		
Semester 6	(Spring)		
ACB280	Health Administration Finance OR	12	3
MNB619	Elective Medical Record Administration IV	12	3
MNB618 MNB534	Health Computer Systems Health Services Evaluation	12 12	4 3
			-
Part Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
MNB330	Australian Health Industry	12	3
MNB154	Psychology	12	3
Semester 2	(Spring)		
MNB319	Medical Record Administration I	12	3
MNB254	Personnel Management & Industrial Relations	12	3
Semester 3	(Autumn)		
PNB261 MNB153	Anatomy & Physiology I Analysis & Methodology in Managem	12 ent 12	4 3
Semester 4	(Spring)		
PNB262	Anatomy & Physiology II	12	4
MNB320	Medical Terminology	12	3
Semester 5	(Autumn)		
MNB382 MSB761	Administration Research I Fundamentals of Medicine I	12 12	3 3
Semester 6	(Spring)		
MNB430	Applied Health Care Analysis	12	3
MSB762	Fundamentals of Medicine II	12	3
Semester 7	(Autumn)		
MNB543	Health Services Planning	12	3 3
MNB419	Medical Record Administration II	12	3
Semester 8	B (Spring)		
MNB519 MNB534	Medical Record Administration III Health Services Evaluation	12 12	3 3
Semester 9	(Autumn)		
ACB383	Accounting for Administrators OR	12	3
ISB392	Elective Business Computing	12	4



Semester 10 (Spring)					
MNB151	Microeconomic Analysis	12	3		
ACB280	Health Administration Finance OR	12	3		
	Elective				
Semester 1	1 (Autumn)				
MNB331	Health Care Economics I	12	3		
	OR Elective				
LW\$001	Medicine & the Law	12	3		
Semester 12 (Spring)					
MNB619	Medical Record Administration IV	12	3		
MNB618	Health Computer Systems	12	4		

Health Administration and Medical Record Administration Electives

Electives may be chosen from any degree courses, subject to prerequisite requirements, availability of the subject in the timetable and approval of the Head of School. However, students are advised to select pairs of elective subjects from a particular field of study. A list of recommended elective subjects is available from the School office.

Subject to sufficient student numbers, the following are offered as Health Administration electives:

MNB533	International Health Care Systems (Autumn)
MNB431	Health Care Economics II (Spring)
MNB518	Health Administration Project (Autumn/Spring)

Information For External Students

The Bachelor of Business - Health Administration degree by external study is no longer available to new students. The following information is directed to continuing students only.

A student in the QUT external Health Administration course normally studies the specialist Health Administration subjects by means of an external (correspondence) course from the QUT. The student will undertake equivalents of most business management subjects from another tertiary institution, usually the DDIAE. (The QUT does not offer most of the business management subjects externally).

QUT external students may enrol for most of the business management subjects as an internal or external student at any other tertiary institution. However, they should ensure that the subjects in which they intend to enrol are acceptable equivalents to subjects in the Health Administration degree. Details of subjects which are equivalent to Health Administration degree subjects, and the institutions at which they are offered, are available from QUT.

QUT HEALTH ADMINISTRATION SUBJECTS

In the case of the Health Administration specialist subjects, external students are normally taught and assessed by the same lecturers and tutors as internal students and follow a subject program which is comparable to that of internal students.

Formal examinations will be held in country centres and overseas.

PREREQUISITES

Where a student is enrolled externally in a QUT subject which has a QUT prerequisite, the student will be required to have either the QUT prerequisite, the equivalent DDIAE subject or an approved prerequisite from another institution.

OTHER SUBJECTS

For non-QUT subjects, external students are required to comply with the coursework and assessment requirements of the particular institution where they are enrolled.

With prior approval from the Head of School of Management at QUT, external students may take elective subjects in other tertiary institutions. QUT subject code numbers MNB980, MNB981 and MNB982 have been allocated to Health Administration Electives - External.

COMPULSORY RESIDENTIAL SESSIONS

External students are required to attend at least one residential session per year either at Darling Downs Institute of Advanced Education (Toowoomba) or at QUT, or at some other venue approved in advance by the Head of School of Management.

Students must have attended at least six residential sessions during the course of their studies in order to qualify for the degree.

Students who change enrolment from part-time to external are required to attend one compulsory residential session for each year of external study.

The student is responsible for all arrangements and expenses relating to travel, accommodation and sustenance while attending Residential Sessions.

The format of Residential Sessions will include: lectures, seminars, case studies, discussions, library work, meeting QUT staff, meeting health industry senior personnel, assignments for credit, and meeting part-time students.

Details of each Residential Session will be forwarded to external students well in advance.

LIBRARY FACILITIES

The External Studies Collection has been established to meet the study needs of external studies students undertaking courses at QUT. It contains books which may be borrowed for up to 35 days. Other QUT library books may be borrowed for up to 28 days. As well as books, the library will supply photocopies of articles.

The study guides and reading lists prepared by lecturers will provide the basic guide to what books and articles will be useful for each subject. Students may also request information for assignments and projects by writing to or telephoning the library.

Requests for materials may be made on forms which the Library supplies to all external studies students, or by telephone to Lending Services (07)223 2214.

Back-up services, in the form of alternative loans when original request is not available and of providing photocopies from other sources when none of the other items requested is available, will be provided. The External Studies Librarian will work in close co-operation with lecturers and will refer any problems concerning requests to them when necessary.

Requests for material from the External Studies Collection and returns of material are to be addressed to: External Studies, QUT Library, GPO Box 2434, Brisbane, Qld 4001. Telephone: 223 2493.

ADMINISTRATIVE ENQUIRIES

All administration enquiries should be addressed to the Registrar at QUT, whether such enquiries relate to QUT, DDIAE or other institutions.

ACADEMIC ENQUIRIES

Enquiries relating to academic matters, lecture content, assignments, etc., should be directed to the lecturer in charge of the subject at the appropriate institution.



Normal Course Progression (External)					
Semester	DDIAE Subject Code	QUT Subject Code	Subject		
1	- 51009	MNB330 EXL009	Australian Health Industry OR People, Communication & Organisation		
2	51007 51379	EXL027 EXL046	Business Statistics Introduction to Human Resource Management		
3	51001 51008	EXL023 EXL008	Business Computer Systems Business Economics		
4	51331	MNB618 EXL052	Health Computer Systems Markets & Management		
5	51004	EXL011 MNB331	Introduction to Business Health Care Economics I		
6	51005	MNB471 EXL025	Micro Economic Policy Introduction to Law		
7	51372 51002	EXL050 EXL020	Industrial Relations Introduction to Accounting		
8	-	MNB430 ACB280	Applied Health Care Analysis Health Administration Finance		
9	-	MNB543 LWS001	Health Services Planning Medicine & the Law		
10	-	MNB231 MNB534	Government Economic Policy Health Services Evaluation		
11	-	MNB505	Health Management I Elective		
12	-	MNB605	Health Management II Elective		

General Information

Staff

Dean: Prof. B.C. Wolff, BCom(Qld), PhD(Arkansas), AAUQ, FASA, FAIM, CPA Faculty Administration Officer: A.V. Lewis, BA(Soc Sci)(CCAE), AIMM, MAITEA Secretary: J. Dahm Faculty Services Officers: N. Groundwater, D. Martin Faculty Building Attendant: J. Murray

Technical Services Section

Manager: L.A. Deakin, BEcon(Qld) Computer Systems Officer: D. Dwyer, BBus(Comp)(QIT) Operations Supervisor: J. Diplock Technicians: M. Swan, D. Eather

School of Accountancy

Head of School: Prof. L. Edwards, BCom(Hons)(Qld), MBA(Qld), AAUQ, CT, FASA, CPA, ACA, FAIM Principal Lecturer: J. Polichronis, BCom(Hons)(Qld), MFM(Qld), FASA, CPA, ASIA Senior Lecturers: P. Best, BCom(Hons)(Qld), MEngSc(Newcastle), FASA, CPA, MACS R.W. Humphreys, BCom(Qld), AAUQ, AASA, CPA



A. Ireland, BBus(CIAE), GradDipMgmt(CIAE), MBA(Qld), AASA, CPA, ACIP P. Little, LLB LLM(Old) M. McGregor-Lowndes, BA, LLB(Qld) I. Nott, BCom(Qld), MBA(Qld), AAUQ, AASA(Senior), AAIB R. Radich, BBus(OIT), MFM(Old), ACA N. Sorby-Adams, BBus(DDIAE), MBA(Qld), AASA, CPA, FTIA J. Sweeting, BEc(Monash), MEc(NE), AASA, CPA J.M. Whitta, BCom(NZ), LLB(Cantuar), DipEducAdmin(Well), ACA, CMA, ACIS I.W. Yeung, BEc(Tas), MBA(Old), AASA, CPA Lecturers: C. Begley, BCom(Old) D. Delaney, BBus(QIT), ACA D. Gadenne, BBus(QIT), DipEd(Vic), MFM(Qld), AASA, CPA A.R. Hunter, BBus(QIT), GradDipCmlCmptg, MACS N. Katter, LLB LLM(Old) C. Lambert, BBus(DDIAE), DipFinMgt(NE), AASA, CPA S. Lazzarini, BCom(Hons)(Qld) L. Munro, BBus(QIT), AASA C. O'Leary, BCom(Hons)(Cork), ACA H. Park, BBus(QIT), ACA S. Pelzer, BBus(OIT), ACA, GradDipTeach(BCAE) M. Percy, BEcon(Qld), BCom(Qld) S. Taylor, BBus(QIT), AASA, AIMM P. Whelan, BCom(Hons)(Qld) S. Yuen, GradDipEd(Surrey), MSc(Surrey), MBA(Oklahoma) Tutors: J. Adams, BBus(QIT), AASA, CPA K. Dunstan, BCom(Qld), DipMgt(CIAE) S. Marsden, BBus(QIT), GradDipAdvAcc, FTIA School Administration Officer: C. Jamieson, BA(Old) Secretary: K. Gratwick Administrative Assistants: T. Nguyen, L. Mellick School of Communication Head of School: B.M. Molloy, BA (Qld), DipEd(Qld), MLitt(UNE), MA(Qld), PhD(GU) Principal Lecturer: H.A. Stevenson, MA(Hawaii), FPRIA, APR Senior Lecturers: P.H. Crowe, BS(Syracuse), MA(Iowa), PhD(Suny-A) L.A. Granato, BA(Central Missouri State), MA(Southern III), PhD(Southern III) R.R.L. Williams, BEd(Old), MA(Loyola), SMPTE, PDGA P.J. Wrigley, BA, BEd(Qld), MLitt(NE), MACE Acting Senior Lecturers: S.J. Fitzpatrick, BBus(Com)(QIT), FAIA(Dip) B.J. Murchison, BBus(Com)(QIT), MBus(Com) Lecturers: L. Bowman, BA(Qld)

P.D. Byde, BA(NZ), BEd(Hons)(Cambridge), MEdStud(Qld)

J. Clare, TPTC(Primary Teach), TTCTD(Deaf Teach), LSDA

V.A. Henderson, FAIA

J.A. Davies, BA, MLitt(NE)

C. Hippocrates, BA(Qld)



P.M. McCarthy, BA(Qld), LSDA(Board), FTCL P.L. McLean, BA, Dip Ed, MLitSt(Old) P.M. Neilsen, BA(Hons)(Qld), MA(Qld), PhD(Qld), R. Petelin, BA(Qld), ASDA J.S. Pinter, MA(Edin) W. Scaife, BBus Senior Tutors: C. Hatcher, BA(Qld), ASDA, LTCL J. Malone, BA(Old), DipEd(Old) Tutor: P. Schembri, BA(Hons)(Qld), BBus(QUT), DipEd(Qld) Phototypesetter/Demonstrator: R. Prentice School Administration Officer: K. Meiklejohn, BA, DipED(Qld) Secretary: M.V. Orozco Administrative Assistants: C. Karr, D. Hunter Laboratory Assistant: D. Hugman School of Management Head of School: Prof. O.P. Coaldrake, BA(Hons)(James Cook), PhD(Griff) Associate Professors: G.P. Palmer, BSc(Birm), MSc(Lond), PhD(City,U.K.) T.J.C. Robinson, BEcon(Hons) PhD(Old) Senior Lecturers: D.J. Blackmur, BEcon(Hons) MLitSt PhD(Qld), MACE J.L. Forrest, BEcon MPubAdmin(Qld) E.R. Hardman, BSc(BYU), MBA(Utah) R.E. Hicks, BA(NE), MA DLittetPhil(SA), PGCE(Ed)(Lond), ThC(IVF Aust), FAPsS, FBPsS, FAIM, MOCA P.R. Hindson, BEc(Syd), MPH(Berkeley), MACS, MASHE, AHA C.R. Perry, BA LittB MEc(NE), MEc(ANU), PhD(ANU), MASOR, AFAIM B.J. Smith, BEcon(Hons), MEcon(Qld), AITD B. Thompson, BA(Hons)(Adel), PhD(Old), MAPsS A.W. Williams, BCom DipEd(NSW), MEcon(Syd), PhD(Old), FCIT S.M. Wong, BCom&Admin(Vic), MBA(Qld), AAIM, ANZIM Lecturers: D.F. Best, GRAD DIP Bus.Admin(QUT), Grad Dip Library Science (QUT), BA(OLD) P.G.H. Carroll, BA(Hons), MSc(Soton) D.K. Conroy, BA, MPubAdmin(Old) L.A. Deakin, BEcon(Old) B.L. Delahaye, BBus(QUT), MBA(Qld), AAIM, MIPMA, MAITD C. Dickenson, BBus(Mgmt)(QUT) K.J. Donohue, BEcon, MEconSt(Qld), MA(Essex) E.J. Duhs, BSc, BA, AEd, MEcon(Old) W.A. Edwards, BCom(Hons)(Qld) T.L. Euler, MBA(Qld), Assoc Dip Mech Eng, AAIEx P.J. Flynn, BA, BEcon(Hons), MEconSt(Qld) G.N. Hearn, BSc(Hons), PhD(Old) P.T. Mansour-Nahra, BA, PhD(Newcastle) M. McGovern, BSc, DipEd, BEcon, M Reg Sc(Old) J.J. Mitchell, BA, DipEd(Macq), Assoc Dip Med Rec Admin(Cumberland) J. McMillan, BA(Hons)(Old) J.J. Parisi, BBus(QUT)





G.N. Southey, BBus, DipPsych(Hons), MAppPsych(Qld) Principal Tutor: P.G. Morgan, BA (Griff) School Administration Officer: A. Murray, BA(CCAE) Secretaries: J. Newell J. Drury (Centre for Strategic Management) Administrative Assistants: H. Fowler, E. Griffiths, W. Jones

Rural Management Development Centre

Executive Officer: P. Huthwaite *Administrative Officer:* R. de Vere *Secretary:* H. Scott

Prizes and Awards



Advertising Institute of Australia Prize

Awarded to the student who achieves the highest aggregate marks in the eight subject advertising strand.

The AMP Society Award

Awarded to the student group who produces the best community relations program in the subject 'Community Relations'.

ANZ Bank Award for Excellence

Awarded to a degree student in the Banking and Finance Strand of the Bachelor of Business - Accountancy who, in the opinion of QUT, has displayed the highest level of academic excellence for the year.

Arthur Audersen & Company Medal



Awarded on the basis of academic achievement, to a student entering the last year of studies within the Business Faculty. The student will have completed at least twenty subjects. Selection criteria will include an interview based on motivation, communication skills, initiative and career orientation.

Arthur Andersen & Company Prize

Awarded to the student who gains the highest aggregate marks over a calendar year in the subjects 'Auditing and Professional Practice I' and 'Auditing and Professional Practice II', of the Bachelor of Business - Accountancy course.

Association of Brisbane Commercial Radio Stations Prize

Awarded to a graduating student enrolled in the Bachelor of Business - Communication degree course with the best overall results in radio broadcasting subjects.

P2B32 Awarded to a student enrolled in the Advertising Strand

Awarded to a student enrolled in the Advertising Strand of the Communication course leading to the Bachelor of Business degree, who attains the most meritorious overall result in the last eight semester units studied.

PZBSOG Australian Institute of Export Prize

Awarded annually to the student who, taking the subject 'International Marketing' for the first time, obtains the highest results in that subject.

Australiau Institute of Management Medallion, Bursary and Prizes

The Malcolm Moore Medallion: awarded to the outstanding student who has performed at a consistently high standard while enrolled in the Bachelor of Business - Management course. Presented by the AIM Queensland Division in honour of a founder member of the Institute.



Bursary: awarded to either a full-time or part-time student for consistently high achievement on completion of the subjects which comprise the second year full-time of the Bachelor of Business - Management course.

Prizes: two prizes awarded to either full-time or part-time students for high achievement on completion of the subjects which comprise the first year full-time of the Bachelor of Business - Management course.

Australian Institute of Training and Development Prize

Awarded to the students who obtain the best results in each of the subjects 'Introductory Training and Development', 'Advanced Training Techniques', and 'Organisational Development'. \mathcal{M}_{NB322} \mathcal{M}_{MM3420} $\mathcal{M}_{NB34632}$

Australian Society of Accountants Prize

Awarded to the full-time graduating student in any calendar year who obtains the best overall grades in the compulsory accounting and law subjects in the Accounting strand of the course leading to the Bachelor of Business - Accountancy, and who is academically eligible for admission to the Australian Society of Accountants as a provisional member.

Berkeley Services Prize

Awarded to the student with the best overall academic record in the Bachelor of Business - Health Administration course, (not offered 1990).

నిటి స్ The Brisbane Business and Professional Women's Club

Margaret Cameron Memorial Prize - donated by Mr John Cameron, through the Brisbane Business and Professional Women's Club, in memory of his mother, Mrs Margaret Cameron. The prize is awarded to the woman student, either full-time or part-time, enrolled in the Bachelor of Business (Management) degree who takes the subject 'Organisational Analysis and Management' at the first attempt, and obtains the highest

SB351 'Organisational Analysis and Management' at the first attempt, and obtains the highest commendable mark among the women students of the current academic calendar year.

BTQ Channel 7 - Scholarship

Awarded annually to a Bachelor of Business - Communication student who has completed second year full-time studies undertaking the strand in Journalism, Public Relations or Advertising. During the final year of the degree program the successful applicant will undertake an internship program at BTQ 7 studios.

Burson-Marsteller Award

Awarded to the student for the best oral presentation in the subject 'Community Relations'.

CIG Medishield Prize

Awarded to the student enrolled in the Bachelor of Business - Health Administration course, who obtains the highest mark in the subject 'Medical Terminology' at the first attempt (not offered 1990).

CIT/Ansett Airlines Prize

Awarded to the student enrolled in the Bachelor of Business degree who takes the subject 'Transport Economics' for the first time, and obtains the highest pass in that subject.

Citibank Limited Prize

Awarded to the student group which produces the most effective electronic newsletter in the subject 'Publicity and Promotion -Electronic'.

Colorama Photographers Prize

Awarded to the student who obtains the best results for the subject 'Fundamentals of Photography'.

College Credit Union Postgraduate Scholarship



Awarded annually to a full-time postgraduate student studying within any School of the OUT Faculty of Business.



ZBSON Commonwealth Banking Award

Awarded to the student enrolled in a Bachelor of Business degree course, who takes the subject 'Macroeconomic Analysis' for the first time, and obtains the highest pass in that NB251 subject.

Conrad and Gargett Pty Limited Prize

Awarded to the student enrolled in the Bachelor of Business - Health Administration course who at the first attempt achieves the best overall result in the subject 'Health Care MNB5A3 Planning'.

Coopers & Lybrand Prize

Awarded annually to the best student sitting for the first time for the subject 'Company Accounting' while enrolled in the Bachelor of Business - Accountancy course.

Country Press Award

Donated by the Queensland Country Press Association, and awarded to the best 'Magazine and Feature Writing' student,

Dalgety Winchcombe Prize

Awarded to the students enrolled in the Bachelor of Business - Communication course, who produce the best piece of print or electronic journalism on a subject of interest to the rural community.

Dean's Award for Excellence

Awarded to the top graduand in each of the undergraduate courses in the Faculty of Business.

DMR Prizes

- 1. Awarded annually to the student who gains the highest mark for the subject 'Business Computer Programming' of the Bachelor of Business - Accountancy course.
- 2. Awarded annually to the student who gains the second highest mark for the subject 'Business Computer Programming' of the Bachelor of Business - Accountancy course.

Duesburys Chartered Accountants Prizes

- 1. Awarded to the Bachelor of Business Accounting student enrolled in the Accounting Strand, who takes the subject 'Company Law I' for the first time and gains the highest result at the semester examinations.
- 2. Awarded to the Bachelor of Business Accountancy student, enrolled in the Accounting Strand, who takes the subject 'Company Law II' for the first time and gains the highest result in that subject.

2BS12-**Douglas Heck Award**

Awarded to the graduating student in each calendar year who takes the subjects 'Managerial Accounting I and II' for the first time, and obtains the highest pass in those subjects.

EDP Auditors Association Prize

Awarded to the student who achieves the highest mark, on first attempt, in the subject 'Computer Security and Audit'.

FM104 Scholarship

Awarded annually to a Bachelor of Business - Communication student who has completed second year full-time studies undertaking the strand in Journalism, Public Relations or Advertising. During the final year of the degree program the successful applicant will undertake an internship program at FM104.



SILISINISCO

ACB340



Awarded to the student who obtains the highest marks at the first attempt in the subjects $\sqrt{2}^{55}$ 'Introductory Accounting I and IIA' The subjects are to be ACBIO ACBIN year.

Karen Howitt Memorial Prize

Awarded to the most motivated final year full-time or part-time student of the Public Relations strand of the Bachelor of Business degree. The prize is sponsored by PEP Management.

Human Resource Management Group Prize

Awarded to the student enrolled in the subject 'Personnel Recruitment and Selection' who obtains the highest mark in that subject at the first attempt.

ICI Australia Limited Prize

Awarded to the best final year student majoring in Marketing who is enrolled in the Bachelor of Business - Management course.

Institute of Chartered Accountants, Australia Prize

Awarded to the student enrolled in the Bachelor of Business - Accountancy or Bachelor of Business - Accountancy/Bachelor of Laws course who takes the subjects 'Financial A(623 Accounting', 'Auditing and Professional Practice I' and 'Taxation Law and Practice I' for the first time and obtains the highest aggregate pass in all three subjects.

V ACB311 **Institute of Personnel Management Australia Prize**

Awarded to the student enrolled in the Bachelor of Business - Management degree, who takes the subject 'Independent Study HRM' for the first time, and obtains the highest pass in that subject.

McDonnell & East Limited Prize

Awarded to the student enrolled in the Bachelor of Business - Management course, who takes the subject 'Retailing Management I' for the first time, and obtains the highest pass in that subject.

Wendy Millar Memorial Scholarship

Awarded annually to a student enrolled full-time in a postgraduate course. The student would normally hold a Bachelor of Business degree from QUT.

Mobil Oil Marketing Prize

Awarded to the student enrolled in a Bachelor of Business course, who takes the subject 'Innovation and Marketing Management' for the first time and obtains the highest pass in that subject.

MIM Holdings Limited Prizes

Communication - awarded to the graduating student in the Bachelor of Business -Communication course who obtains the best overall results in this course.

Communication - awarded to the student in the Bachelor of Business - Communication course who produces the best public affairs radio program for the subject 'Current Affairs Broadcasting'.

Nanda Marketing Prize

Awarded to the student enrolled in the Bachelor of Business - Management degree, who takes the subject 'Introductory Marketing' for the first time, and obtains the highest pass in that subject.





NCR Australia Pty Limited Prize

Awarded to the student enrolled in a course leading to the degree Bachelor of Business. who takes the subject 'Input/Output Subsystems' for the first time, and obtains the highest pass in that subject.

The Duncan Palmer Memorial Prize

Donated jointly by the Australian College of Health Services Administrators and the Minister for Health, and awarded to the student who gains the highest aggregate marks over an academic year in the subjects 'Health Management I' and 'Health Management II' of the Bachelor of Business - Health Administration course.

Peat Marwick Hungerfords Prizes

1ACB343

- 1. Awarded to the student enrolled in the Bachelor of Business / Accountancy course, who takes the final year subjects 'Taxation Law and Practice' II' and 'Auditing and Professional Practice II', and obtains the highest marks in those subjects at the first attempt. ACBSVZ
- 2. Awarded to the student in the Bachelor of Business Accountancy with the highest aggregate marks at the first attempt for the subject 'Introductory Accounting IIA'. A-CB115

The Phillips Public Relations Award

Awarded to the student who is judged to have prepared the best financial communications report on an organisation in the subject 'Advanced Public Relations'.

Public Relations Institute of Australia (Queensland) Prize

Awarded to the student who completes the Bachelor of Business - Communication degree course, and obtains academic distinction in the six-subject Public Relations major sequence, and epitomizes the highest professional characteristics represented by membership of the public relations profession.

OUT - City Heart Public Relations Prize

Awarded to a final year Public Relations student who demonstrates his/her initiative in extra-curricular activities, and has a sound academic record.

QUT - City Heart Public Relations Scholarship

Awarded annually to a Bachelor of Business - Communication student for final year. The scholarship consists of a four week internship at City Heart to be taken in the mid-semester recess as part of the subject 'Professional Communication Practice'.

QUT Marketing Trust Fund Prize

Awarded to the student group enrolled in a course leading to the Bachelor of Business degree, which produces the Marketing Research Report with the highest marks in the subject 'Marketing Research Projects'.

Queensland Newspapers Prize for Journalism

Awarded to the student enrolled in the Bachelor of Business - Communication course, who takes the Journalism strand, and completes the course with the best overall results.

Queensland Tourist and Travel Corporation Prize

Awarded to the student enrolled in the subject 'Publicity and Promotion - Print' who submits the best design plan and program for promoting tourism in Queensland.

Royal Australian College of Medical Administrators Prize 3503

Awarded to the student who obtains the highest pass at the first attempt for the subject 'Medicine and the Law' of the Bachelor of Business - Health Administration course.

Royal Australian Institute of Public Administration (Queensland Division) Prizes Introductory Level Prize - awarded to the student enrolled in the Bachelor of Business -

Public Administration course who takes the subjects 'Australian National Government





BUSINESS

A' and 'Introduction to Administrative and Political Analysis' for the first time, and obtains the highest aggregate pass in those subjects.

Advanced Level Prize - awarded to the student enrolled in the Bachelor of Business -Public Administration course who takes the subjects 'Public Policy Process I' and 'Public Policy Process II' for the first time, and obtains the highest aggregate pass in those subjects.

School of Communication Award for Investigative Journalism

Awarded to the student who achieves the highest grade for a piece of investigatory reporting for either electronic or print media.

Society of Business Communicators (Queensland) Prize

Awarded to the student, enrolled in the Bachelor of Business - Communication degree, who shows the most outstanding overall performance in 'Writing and Communication Theory', 'Communication in Small Groups' and 'Communication Research'.

LF. Storr Prize

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MB211 (MB012)

Awarded at two yearly intervals to the student who, being a member of the Australian Society of Accountants, being resident in Queensland, and not being a full-time student obtains at the first attempt the highest aggregate marks in the subject 'Advanced Managerial Accounting' in the Graduate Diploma in Advanced Accounting course or Master of Business - Accountancy course.

Taxation Institute of Australia Prize

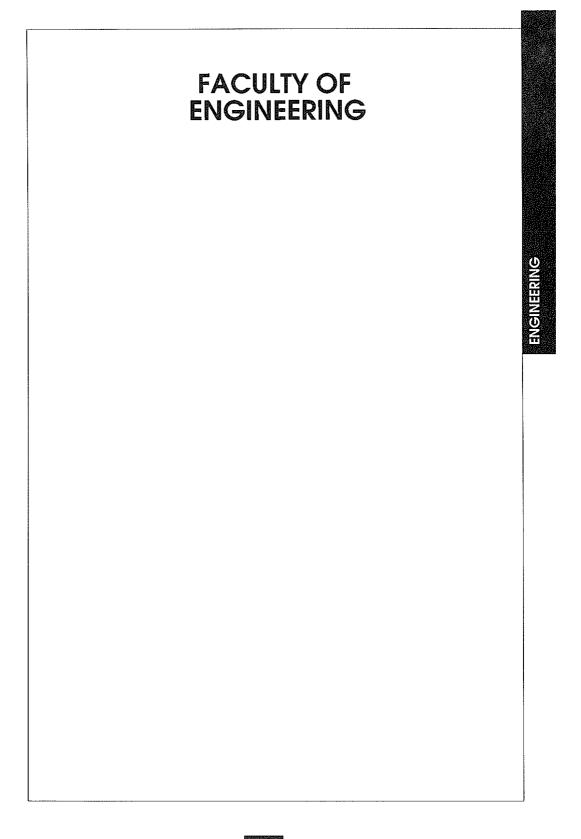
Awarded to the student enrolled in the Bachelor of Business - Accountancy course, who takes the subjects 'Taxation Law and Practice I and II' for the first time, in the one calendar year, and obtains the highest pass in those subjects.

Sidney Webb Memorial Prize

Awarded to the student enrolled in the Bachelor of Business degree, who takes the subject 'Personnel Management and Industrial Relations' for the first time, and obtains the highest pass in that subject.

The Turnbull Fox Phillips Award

A warded to the student who is judged to have prepared the best financial communications report on an organisation in the subject 'Advanced Public Relations'.



FACULTY OF ENGINEERING

Courses Offered

- ENN191 Master of Engineering by Thesis
- CEN254 Master of Engineering Science Civil
- EEN260 Master of Engineering Science Computer Engineering
- CEM213 Graduate Diploma in Municipal Engineering
- EEM230 Graduate Diploma in Computer Engineering
- IFM242 Graduate Diploma in Quality (see page 21)
- SVM241 Graduate Diploma in Surveying Practice
- CEJ156 Bachelor of Engineering Civil
- EEJ157 Bachelor of Engineering Electrical and Computer Engineering
- **IFJ222** Bachelor of Engineering/Bachelor of Applied Science -Electronics and Computing (see page 22)
- IFJ237 Bachelor of Engineering/Bachelor of Business -Manufacturing Systems and Management (see page 29)
- IFJ251 Bachelor of Applied Science Surveying/Bachelor of Business - Information Management (see page 31)
- MEJ158 Bachelor of Engineering Mechanical and Manufacturing Engineering
- SVJ159 Bachelor of Applied Science Surveying
- CEL187 Associate Diploma in Civil Engineering
- EEL188 Associate Diploma in Electrical Engineering
- MEL189 Associate Diploma in Mechanical Engineering
- SVL212 Associate Diploma in Cartography

Change of Course Names

- EEM230 Graduate Diploma in Computer Controlled Systems now EEM230 Graduate Diploma in Computer Engineering
- EEJ157 Bachelor of Engineering Electrical now EEJ157 Bachelor of Engineering
 Electrical & Computer Engineering
- IFJ222 Bachelor of Engineering/Bachelor of Applied Science Electronic Systems and Computing now IFJ222 Bachelor of Engineering/Bachelor of Applied Science - Electronics and Computing



The Faculty

Over the last two decades the Faculty of Engineering has developed a strong reputation for producing highly employable graduates who are good at solving professional engineering problems. Recently, the Faculty has been a leader in the introduction of innovative courses preparing students for the latest technology and for the new challenges facing Australian industry.

Courses are designed to provide a strong grounding in the basic engineering sciences; to prepare students for lifelong learning and to develop an awareness of management and business principles so that graduates can keep abreast of changing technology and can progress to senior management positions as their careers develop.

Course Structures

ENN191 Master of Engineering By Thesis

Introduction

The objectives of the program are:

- □ to provide for postgraduate educational opportunities in design, investigation, development, research or any combination thereof, directly related to professional engineering practice
- □ to provide for increased relationships between the University and industry or other external agencies involved in engineering, to their mutual advantage, and
- □ to provide formal recognition of work of an advanced and/or original nature.

1. General Conditions

- 1.1 The Council of the Queensland University of Technology was established in 1989 under the Queensland University of Technology Act 1988.
- 1.2 The Council's power to approve recommendations from faculty academic boards regarding the registration, supervision and examination of research degree candidates and to develop policy and procedures relating to research degrees is exercised through a Research Management Committee which shall be a subcommittee of Academic Committee.
- 1.3 Research Management Committee has delegated responsibility for day to day administration of research master degree courses to faculty academic boards. Academic boards shall report biannually to Research Management Committee on progress made by research master degree candidates.
- 1.4 This program is administered by the Academic Board of the Faculty of Engineering through its Master's Degree Standing Committee. The program is offered in Civil, Electrical and Electronic Systems and Mechanical and Manufacturing Engineering.
- 1.5 In order to qualify for the award of the degree of Master of Engineering by Thesis a candidate must:
 - □ have completed the approved program involving advanced and/or original work under the supervision prescribed by the Engineering Academic Board
 - □ have submitted and the Engineering Academic Board accepted a thesis, together with reports, and/or documents where applicable, prepared under the supervision of the supervisor
 - □ have completed such other work as may be prescribed by the Engineering Academic Board, and



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

2. Registration

- 2.1 Applications shall be accepted subject to the availability of facilities and supervision.
- 2.2 Applications may be lodged with the Registrar at any time.
- 2.3 There is a six month maximum period between acceptance by the Master's Degree Standing Committee and enrolment by the student in the Master of Engineering by Thesis before the offer of admission to the program lapses.
- 2.4 Normal admission will require the candidate to have at least an Honours IIA degree in a bachelor degree in Engineering from the Queensland University of Technology or a qualification judged equivalent by the Engineering Academic Board.

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

- (a) Three years' professional experience in the general field in which the proposed work lies, or
- (b) Satisfactory completion of an appropriate master's qualifying program including formal coursework and/or reading program in related fields stipulated by the Engineering Academic Board, or
- (c) The submission of technical publications or other appropriate evidence which satisfies the Engineering Academic Board that advanced knowledge has been acquired in a division of engineering in which the applicant has worked as a professional engineer in a position of responsibility. This knowledge should be relevant to the field of study proposed.
- 2.5 A candidate shall be registered initially as
 - □ a graduate student (provisional) if he/she is to undertake an appropriate qualifying program
 - □ a graduate student if he/she is considered by the Engineering Academic Board to meet the requirements for entry.
- 2.6 In considering an applicant for registration, the Engineering Academic Board shall, in addition to assessing the applicant's suitability, be satisfied that:
 - □ the proposed program has relevance to the aims and objectives of the University
 - □ the proposed program has relevance to the needs of industry, and
 - □ the applicant can devote sufficient time to his/her planned program.
- 2.7 The program is offered on a full-time and/or a part-time basis. Part-time students normally will be employed in some professional engineering capacity during the day and carry out their projects on a part-time basis at the QUT or in their place of employment or in a sponsoring organisation.
- 2.8 Full-time students may be on a scholarship from industry and may carry out their projects at the QUT or in a sponsoring organisation. Normally full-time students would be expected to work on their projects at the QUT for not less than three-quarters of a normal working week, averaged over each year of candidacy. Such a student may not devote more than 300 hours annually to teaching activities, including preparation and marking.
- 2.9 Engineering Academic Board may cancel a candidate's registration if:
 - □ after consulting a candidate's supervisors and having taken account of all relevant circumstances, the Academic Board is of the opinion that the candidate either has effectively discontinued his/her studies or has no reasonable expectation of



completing the course of study within the maximum time allowed (see Section 4).

2.10 A candidate whose registration has lapsed or has been cancelled, and who wishes subsequently to re-enter the course of study to pursue a research program which is substantially the same as the previous investigation, may be re-admitted under such conditions as the Engineering Academic Board shall prescribe.

3. Course of Study

- 3.1 A candidate for the degree of Master of Engineering by Thesis will undertake necessary project work in design, investigation and research and/or development work on a topic approved by the Engineering Academic Board.
- 3.2 All projects should be sponsored by outside agencies such as industry, government authorities and professional organisations, or by the QUT itself. This provision is to ensure that programs are relevant to the aims of the University and the community. It is important that the projects be primarily directed towards industry need.
- 3.3 Where advised, a candidate may be required to complete satisfactorily formal coursework in subjects relevant to the field of study up to a total class contact time of 12 semester hours.
- 3.4 The supervisor shall require students to participate in graduate seminars and may require them to attend specialist lectures. Students will be encouraged to attend conferences, where these are related to the field of the project.
- 3.5 The course of study normally will include:
 - (a) participation in University scholarly activities such as research seminars, teaching and publication
 - □ regular face-to-face interactions with supervisors, and
 - □ a program of supervised research and investigation.
 - (b) The course of study may also include a program of assessed coursework.
- 3.6 Coursework at masters level demands a capacity for critical analysis and a specialisation of research interests not normally appropriate for an undergraduate program. Such coursework may be conducted in a number of ways:
 - □ as advanced lecture courses
 - □ as seminars in which faculty and students present critical studies of selected problems within the subject field
 - □ as independent study or reading courses, or
 - □ as research projects conducted under faculty supervision.

In all cases, coursework will be based upon a formal syllabus setting out the educational outcomes expected from the course, a list of topics to be covered, the prescribed reading material and the method of assessment of progress through and at the end of the course.

3.7 The following documents should be lodged with the application:

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



4. Period of Time for Completion of Course of Study

- 4.1 A full-time graduate student (provisional) shall not be eligible for confirmation of registration as a graduate student until a period of at least twelve months has elapsed from initial registration. In the case of a part-time student the corresponding period shall be at least twenty-four months.
- 4.2 A registered graduate student shall present the thesis for examination after a period of at least two years for a part-time student or one year for a full-time student has elapsed from the time of confirmed registration, except in the case of special permission granted under 4.3. In special cases the academic board may approve a shorter period.
- 4.3 A registered graduate student shall present the thesis for examination no later than four years for a part-time student or two years for a full-time student from the date of confirmed registration.
- 4.4 A registered graduate student who has obtained normal admission to the master degree program may apply to the Engineering Academic Board for permission to submit the thesis in less than two years for a part-time student and less than one year for a full-time student after commencement, for an extension of time, or for leave of absence from the program.
- 4.5 Where application is made for permission to extend the period within which the candidate may submit a thesis for examination, details of the candidate's progress shall be presented to the Engineering Academic Board together with reasons for the delay in completing the course and the expected date of completion. Where the Academic Board agrees to an extension it may set a limit to the maximum period of registration in the program.

5. Supervision

- 5.1 The Engineering Academic Board shall appoint one or more supervisors in respect of each candidate, provided that, where more than one supervisor is appointed, one shall be nominated as the Principal Supervisor and others as Associate Supervisors.
- 5.2 The Principal Supervisor shall normally be from the academic staff of the QUT school in which the student is enrolled.
- 5.3 Candidates shall present six-monthly progress reports to their Principal Supervisor, who will submit these to the Engineering Academic Board with comments.

6. Place and Conditions of Work

- 6.1 The research program must normally be carried out under supervision in a timetable environment in Australia.
- 6.2 The Academic Board shall not admit a candidate unless it has received:
 - a supporting statement from the head of the QUT school supervising the program that in his/her opinion, the applicant is a suitable person to undertake a research program leading to the master degree, that he/she supports the program, and that the school is willing to undertake the responsibility of supervising the work of the applicant, and
 - □ a supporting statement from the employer, stating that he/she is aware of the course rules and is prepared to sponsor and support the applicant. The employer should also state the extent of facilities available for the project, the extent to which supervision could be given for this work and the extent to which time will be made available to the applicant for the project.

7. Thesis

- 7.1 In the form of presentation, the thesis shall comply with all the requirements of the document *Requirements for Presenting Theses*.
- 7.2 No later than six months after confirmed registration, students shall submit the title of their thesis for approval by the Engineering Academic Board, and after approval has been granted, no change will be made except with the permission of the Engineering Academic Board.
- 7.3 The candidate shall give two months' written notice of intention to submit his/her thesis and such notice shall be accompanied by the appropriate fee, if any.
- 7.4 The thesis shall comply with the following requirements:
 - □ a significant proportion of the work described (as determined by the Engineering Academic Board) must have been completed subsequent to initial registration for the master degree
 - □ there must be an advanced and/or original contribution to the knowledge of the subject
 - □ it must reach a satisfactory standard of literary presentation
 - □ it shall be the student's own account of the work. Where work is carried out conjointly with other persons, the Engineering Academic Board shall be advised as to the extent of the student's contribution to the joint work
 - □ the thesis shall not contain as its main content any work or material which the student has previously submitted for another degree or similar award, and
 - □ the thesis may consist primarily of reports, plans and/or documents or may be supported by these if they have a bearing on the subject of the thesis.
- 7.5 Except with the specific permission of the Engineering Academic Board the thesis must be presented in the English language. Such permission must be sought at the time of application for registration, and will not be granted solely on the grounds that the candidate's ability to satisfy the examiners will be affected adversely by the requirement to present the thesis in English.
- 7.6 Subject to QUT's Intellectual Property policy, the copyright of the thesis is vested in the candidate.
- 7.7 Where a candidate or the sponsoring establishment wishes the thesis to remain confidential for a period of time after completion of the work, application for approval must be made to Research Management Committee when the thesis is submitted. The period normally shall not exceed two years from the date on which the examiners recommend acceptance of the thesis, during which time the thesis will be held on restricted access in the QUT Library.

8. Examination of Thesis

- 8.1 The Engineering Academic Board shall appoint three examiners, of whom at least two shall be from outside the University. No supervisor of the candidate shall be appointed as one of the examiners.
- 8.2 Normally, examiners must agree to read and report upon the thesis within two months of its receipt.
- 8.3 On receipt of the reports from the examiners, the Engineering Academic Board shall:
 - (a) recommend to Academic Committee that the student be awarded a Master of Engineering degree, after any minor amendments requested by the examiners have been made,or
 - (b) permit the student to resubmit the revised thesis for re-examination within one year, or



- (c) cancel the student's registration.
- 8.4 If the examiners' reports are conflicting, the Engineering Academic Board may, after appropriate consultation with the Principal Supervisor
 - □ seek advice from a further examiner, or
 - \Box not award the degree.

CEN254 Master of Engineering Science - Civil

Course Duration: 4 semesters part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr B.Rigden

Entry Requirements

Entrants to the Masters Degree program must either:

- (a) have obtained a Bachelor of Engineering degree with honours in Civil Engineering,
- (b) have obtained a Graduate Diploma in Municipal Engineering with a Grade Point Average (GPA) of at least 5.

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

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

Course Structure

The course will consist of 20 credit points (5 semester hours) of core subjects plus 40 credit points (10 semester hours) of electives plus a project equivalent to 8 semester hours. The project comprises 35% of the content of the course.

			Credit Points	Contact Hrs/Wk
	JECTS in Semester; S = Spring Semeste e generally offered in alternate y			
CEP131	Engineering Management &			
	Administration	(A)	12	3
CEP200	Process Modelling	(S)	8	2
CEP999	Project	(A,S)	36	8
ELECTIVE	SUBJECTS			
CEP128	Municipal Engineering Planning	(A)	12	3
CEP172	Water Quality Engineering	(A)	8	2 3
CEP218	Transportation Engineering	(A)	12	3
CEP107	Construction Management &	• •		
	Economics	(A)	8	2
CEP127	Road & Traffic Engineering	(A)	12	2 3
CEP361	Drainage Engineering	(A)	8	2
CEP174	Public Health Engineering			
	Practice	(A)	12	3



CEP109	Municipal Law & Regulations	(S)	8	2
CEP310	Urban Transportation Planning	(Ŝ)	8	$\overline{2}$
CEP277	Waste Management	(S)	12	3
CEP215	Advanced Traffic Engineering	(S)	8	2
CEP276	Advanced Treatment Processes	(Sí	8	2

Suggested Electives for Public Health Engineering Major

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

Suggested Electives for Local Government Major

- CEP174 Public Health Engineering Practice
- CEP277 Waste Management
- CEP361 Drainage Engineering
- CEP127 Road and Traffic Engineering
- CEP107 Construction Management & Economics
- CEP128 Municipal Engineering Planning
- CEP109 Municipal Law & Regulations

Suggested Electives for Transportation Engineering Major

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

EEN260 Master of Engineering Science - Computer Engineering

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Paul Wilson

Entry Requirements

- (a) A Bachelor's degree in engineering with at least 2nd class honours, or
- (b) Students in possession of a Bachelor's degree in Engineering may transfer from the Graduate Diploma in Computer Engineering with a Grade Point Average (GPA) of at least 5 (credit level) at the end of the first part-time year.
- (c) Graduates from the Graduate Diploma in Automatic Control or Computer Controlled Systems or Computer Engineering with a GPA of 5 or greater and with a Bachelor's degree in Engineering can complete the Master of Engineering Science by completing the research project and thesis.

Methods of Assessment

The course is to be assessed 50% by coursework and 50% by thesis.

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



The thesis must be examined and accepted by two examiners - one internal and one external.

Course Str	ucture	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
EEP102	Unix & C for Engineering	12	3
EEP104	Realtime Operating Systems	12	3
Semester 2	(Spring)		
EEP101	Algorithms for Control & Signal		
	Processing	12	3
EEP103	Computer Hardware & Interfacing	12	3
EEP300	Research Project	48	-

CEM213 Graduate Diploma in Municipal Engineering

Course Duration: 4 semesters part-time

Total Credit Points: 96

Staudard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Brian Rigden

Entry Requirements

NORMAL ENTRY

To be eligible to enrol for the Graduate Diploma in Municipal Engineering, an applicant must possess an acceptable qualification in engineering from a recognised tertiary institution.

QUALIFYING ENTRY

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

Course Structure

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

			Credit Points	Contact Hrs/Wk
CORE SUB				
A = Autum	in Semester; S = Spring Semester	Г.		
Subjects ar	e generally offered in alternate y	ears.		
CEP131	Engineering Management &			
	Administration	(A)	12	3
CEP128	Municipal Engineering Planning	(A)	12	3
CEP361	Drainage Engineering	(A)	8	2
CEP491	Municipal Engineering Practice	(A,S)	16	2 3
CEP200	Process Modelling	(S)	8	2
ELECTIVE	SUBJECTS			
CEP172	Water Quality Engineering	(A)	8	2

CEP218	Transportation Engineering	(A)	12	3
CEP174	Public Health Engineering			
	Practice	(A)	12	3
CEP127	Road & Traffic Engineering	(A)	12	3
CEP107	Construction Management &			
	Economics	(A)	8 8	2
CEP310	Urban Transportation Planning	(S)	8	2 2 3 2 2 2
CEP277	Waste Management	(S)	12	3
CEP109	Municipal Law & Regulations	(S)	8 8 8	2
CEP215	Advanced Traffic Engineering	(S)	8	2
CEP276	Advanced Treatment Processes	(S)	8	2
	D LOCAL GOVERNMENT ENGI s plus the following:	NEERING	PRACTICE MAJOR	
CEP107	Construction Management & Eco	nomics	8	2
CEP109	Municipal Law & Regulations		8	2 2 3 3
CEP127	Road & Traffic Engineering		12	3
CEP174	Public Health Engineering Practic	e	12	3
	D TRANSPORTATION ENGINEI s plus the following:	ERING MAJ	ÍOR	
CEP127	Road & Traffic Engineering		12	3
CEP215	Advanced Traffic Engineering		8	3 2 3 2
CEP218	Transportation Engineering		12	3
CEP310	Urban Transportation Planning		8	2
	D PUBLIC HEALTH ENGINEER	ING MAJOI	ξ	
CEP172	Water Quality Engineering		8	2
CEP174	Public Health Engineering Practic	e	12	
CEP276	Advanced Treatment Processes		8	3 2 3
CEP277	Waste Management		12	3

EEM230 Graduate Diploma in Computer Engineering

Course Duration: 4 semesters part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Paul Wilson

Entry Requirements

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

Course Str	ucture	Credit Points	Contact Hrs/Wk	
Eight subje	cts of 3 hours and 12 credit points each:			
CORE SUBJ Semester 1				
EEP102 EEP104	Unix & C for Engineering Realtime Operating Systems	12 12	3 3	
Semester 2 (Spring)				
EEP101	Algorithms for Control & Signal Processing	12	3	



EEP103 Computer Hardware & Interfacing 12	3
ELECTIVES Any four to be selected.	
Semester 3 (Autumn)	
EEP122 Graphics & Computer Vision 12	3
EEP123 Process Control & Robotics 12	3
EEP124 Data Communications 12	3
Semester 4 (Spring)	
EEP120 Networks & Distributed Computing 12	3
EEP121 Parallel & Supercomputing 12	3
EEP125 Advanced Engineering Software Tools 12	3

SVM241 Graduate Diploma in Surveying Practice

Course Duration: 2 semesters full-time (34 weeks)

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Brian Hannigan

Entry Requirements

NORMAL ENTRY

To be eligible to enrol in the course leading to the Graduate Diploma in Surveying Practice, an applicant:

- (a) shall hold from the Queensland University of Technology the degree of Bachelor of Applied Science Surveying; or
- (b) shall hold from the University of Queensland the degree of Bachelor of Surveying; or
- (c) shall hold from another tertiary institution a degree acceptable to the Surveyors Board of Queensland and considered by the Head of the Department of Surveying to be at least equivalent to the degree of Bachelor of Applied Science - Surveying of this University.

QUALIFYING ENTRY

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

Course Structure

Students must enrol in the subject SVP101 Surveying Practice in each semester.

The broad areas of practice dealt with in the course and the number of hours devoted to each are:

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Topics	Hours
Cadastral Surveying	603
Engineering Surveying	210
Building Control	38
Detail Surveys	30
Mapping	76
Survey Computing	47
Survey Project Management	100

Office Operations	90
Practice Law	30
Professional Practice	8
Innovation and System Developments	22
Surveys for Government	38
Total	1292

SPECIAL NOTES RELATING TO ALL UNDERGRADUATE COURSES IN THE FACULTY OF ENGINEERING

Attendance Requirement

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

Field Trips

Field trips or field projects have a compulsory attendance requirement.

SPECIAL NOTES RELATING TO BACHELOR OF ENGINEERING COURSES

Industrial Experience

A student shall have engaged in at least five weeks approved employment in conjunction with each of first, second and third years of the full-time course or first, third and fifth years of the part-time course. The student must submit an industrial experience record form which has been completed by both the student and the employer.

Exemptions

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

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

Honours

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

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

- □ all subjects in the third and fourth years of the Bachelor of Engineering programs
- all subjects other than business subjects in the third, fourth and fifth years of the Bachelor of Engineering/Bachelor of Business - Manufacturing Systems and Management



ENGINEERING

all subjects other than information technology subjects in the third, fourth and fifth years of the Bachelor of Engineering/Bachelor of Applied Science - Electronic Systems and Computing.

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

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

CEJ156 Bachelor of Engineering - Civil+

Course Duration: 8 semesters full-time, 12 semesters part-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr David Beal

		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
PHB132 MAB193 CSB191 CEB102 CEB184 MEB121 MEB171 EEB101 CMB108	Engineering Physics IA Engineering Mathematics I* Introduction to Computing Civil Engineering I Engineering Mechanics I Engineering Graphics Introduction to Manufacturing Circuits & Measurements English for Technologists	6 6 4 3 7 6 3 7 6	3 2 1.5 3 1.5 3 3 3 3 3
CHB002	Introduction to Engineering Chemistry**		(1)
Semester 2	(Spring)		
PHB232 CHB346 MAB193 CSB291 CEB185 MEB111 SVB306 MEB133 CEB192 Semester 3	Engineering Physics IIA Engineering Chemistry C Engineering Mathematics I* Introduction to FORTRAN Engineering Mechanics II Dynamics Surveying I Materials I Industrial Experience I	6 4 6 4 7 7 8 6	3 2 3 3 3 3 3 5 weeks
MAB493		4	n
CEB282 CEB281 CEB201 CEB202 CEB291 CEB231	Engineering Mathematics II* Statics Strength of Materials Steel Structures* Concrete Structures I* Civil Engineering Materials Concrete Technology	6 2 5 4 7 7	3 1 2 1.5 1.5 3 3

+ See note, page 128.

* This subject extends over two semesters

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



ESB519 CEB260	Geology for Engineers Fluid Mechanics	6 7	3
		,	J
Semester 4	(Spring)+		
MAB493	Engineering Mathematics II*	6	3 3 1.5 1.5 3 3 3 2
CEB220	Civil Systems I	6	3
CEB253	Structural Engineering I	5	3
CEB201	Steel Structures*	4	1.5
CEB202	Concrete Structures I*	4	1.5
CEB240	Soil Mechanics I	5	3
CEB360	Hydraulic Engineering I	6	3
CEB312	Highway Engineering	ě	3
CEB393	Engineering Investigation & Reporting I		2
CEB404	Field Trip	3 3	1.5
CEB292	Industrial Experience II	U	5 weeks
	-		
Semester 5	. ,	,	
MAB893	Engineering Mathematics III	6	3
CEB354	Structural Engineering II	7	3
CEB306	Concrete Structures II	7	3
CEB241	Soil Mechanics II	7	3
CEB460	Hydraulic Engineering II	7	3 3 3 3 3 3 3
CEB307	Construction Practice	6	3
CEB304	Civil Engineering Design I*	8	4
Semester 6	(Spring)		
CEB355	Structural Engineering III	6	3
CEB440	Geotechnical Engineering I	6	3
CEB361	Hydrology	6	3
CEB313	Traffic Engineering	6	3 3 3 3 3 3 3
CEB370	Public Health Engineering I	6	3
CEB305	Construction Planning & Economics	6	3
CEB304	Civil Engineering Design I*	8	4
MNB004	Management	4	2
CEB392	Industrial Experience III		5 weeks
Semester 7	(Autumn)		
CEB421		2	1
CEB421 CEB470	Civil Systems II Bublic Health Engineering H	5	
CEB470 CEB430	Public Health Engineering II Building Construction	3 5 3	2
CEB405	Civil Engineering Design II*	6	2
CEB401	Design Project	5	3 2 3 3
CEB492	Engineering Investigation &	2	5
CED472	Reporting II	3	1
ACB482	Accounting Principles C	3 2	i
CEB491	Project (Civil)*	9	3
CED491	TWO Elective Subjects	12	6
Somostor 9			
Semester 8	-	0	-
CEB406	Structural Applications	8	3
CEB405	Civil Engineering Design II*	6	3
CEB403	Professional Practice	7	2
CEB491	Project (Civil)*	9	3 2 3 9
	THREE Elective Subjects	18	9
Elective Su	ıbjects		
AUTUMN S	SEMESTER		
CEB551	Advanced Structural Design	6	3
CEB541	Geotechnical Engineering II	6	3
		_	-
+ Semester 4 includes a tutorial week during which field trips are to be taken.			

+ Semester 4 includes a tutorial week during which field trips are to be taken. * This subject extends over two semesters.



CEB561 CEB512 CEB503 CEB501	Coastal Engineering Transport Engineering I Advanced Construction Methods Civil Engineering Practice I	6 6 6 6	3 3 3 3
SPRING SEN	MESTER		
CEB520	Finite Element Methods	6	3
CEB532	Concrete & Masonry Structures	6	3
CEB542	Geotechnical Engineering III	6	3
CEB560	Hydraulic Engineering III	6	3
CEB570	Public Health Engineering III	6	3
CEB511	Transport Engineering II	6	3
CEB505	Project Management & Administration	6	3
CEB506	Civil Engineering Practice II	6	3

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

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

* This subject extends over two semesters. ** CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Grade 12 Chemistry.

ESB519 CEB260 CEB307	Geology for Engineers Fluid Mechanics Construction Practice	6 7 6	3 3 3	
Semester 6	(Spring)			
CHB346 CEB202 CEB201 CEB240 CEB360 CEB305 CEB292	Engineering Chemistry C Concrete Structures I* Steel Structures* Soil Mechanics I Hydraulic Engineering I Construction Planning & Economics Industrial Experience II	4 4 5 6 6	2 1.5 3 3 3 5 weeks	
Semester 7	(Autumn)			
CEB220 EEB101 CEB354 CEB241 CEB460	Civil Systems I Circuits & Measurements Structural Engineering II Soil Mechanics II Hydraulic Engineering II	6 7 7 7 7	3 3 3 3 3 3	
Semester 8	(Spring)			
CEB355 CEB440 CEB361 CEB312 CEB370	Structural Engineering III Geotechnical Engineering I Hydrology Highway Engineering Public Health Engineering I	6 6 6 6	3 3 3 3 3	
Semester 9	(Autumn)			
CEB421 CEB306 CEB313 CEB470 CEB304 CEB393	Civil Systems II Concrete Structures II Traffic Engineering Public Health Engineering II Civil Engineering Design I* Engineering Investigation & Reporting I	3 7 6 5 8 3	1 3 3 4 2	
Semester 1	0 (Spring)			
CEB401 CEB430 CEB304 CEB492 MNB004 ACB482 CEB392	Design Project Building Construction Civil Engineering Design I* Engineering Investigation & Reporting II Management Accounting Principles C ONE Elective Subject Industrial Experience III	5 3 8 3 4 2 6	3 2 4 1 2 1 3 5 weeks	
Semester 1	1 (Autumn)			
CEB406 CEB405 CEB491	Structural Applications Civil Engineering Design II* Project (Civil)* TWO Elective Subjects	8 6 9 12	3 3 3 6	
Semester 1	2 (Spring)			
CEB405 CEB403 CEB491	Civil Engineering Design II* Professional Practice Project (Civil)* TWO Elective Subjects	6 7 9 12	3 2 3 6	
ELECTIVE SUBJECTS Refer to Full-time Course Structure.				

* This subject extends over two semesters.



EEJ157 Bachelor of Engineering - Electrical and Computer Engineering+

Course Duration: 8 semesters full-time, 12 semesters part-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Pat Boddington

Full-Time Course Structure		Credit Points	Coutact Hrs/Wk
Semester 1	(Autumn)		
CHB002 MAB193 EEB101	Introduction to Engineering Chemistry** Engineering Mathematics I* Circuits & Measurements	(2) 6 7	(1) 3 3
CSB191 PHB132 MEB121 MEB171 CMB108 CEB184 CEB102	Introduction to Computing Engineering Physics IA Engineering Graphics Introduction to Manufacturing English for Technologists Engineering Mechanics I Civil Engineering I	4 6 3 6 7 3	3 2 3 1.5 3 1.5
Semester 2	(Spring)		
MAB193 EEB202 CSB291 PHB232 MEB111 EEB203 EEB371 EEB272 MEB133 EEB206	Engineering Mathematics I* Electromagnetics Introduction to FORTRAN Engineering Physics IIA Dynamics Circuit Analysis Electronic Devices Digital Principles Materials I Industrial Experience I	6 4 6 7 5 5 3 6	3 3 2 3 3 3 3 1.5 3 5 weeks
Semester 3	(Autumn)		
MAB493 EEB303 EEB361 EEB471 EEB372 CSB490 EEB302 CMB135	Engineering Mathematics II* Network Theory I Signals & Systems Electronics Sequential Logic Software Engineering Electrotechnology Communication for Engineers	6 7 7 7 6 6 2	3 3 3 3 3 3 3 1
Semester 4	(Spring)		
MAB493 EEB401 EEB472 EEB520 EEB561 EEB473 EEB400	Engineering Mathematics II* Network Theory II Microprocessors Control Engineering Analogue Communications Integrated Circuits Electrical Power Systems	6 6 6 6 6 6	3 3 3 3 3 3 3 3 3

+ See Special Note, page 128.

** CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Grade 12 Chemistry. * This subject extends over two semesters.



EEB430 EEB406	Engineering Fields Industrial Experience II	6	3 5 weeks	
Semester 5	(Autumn)			
EEB661	Information Theory & Noise OR	6	3	
EEB553	Electrical Power Equipment	6	3	
EEB591	Systems Programming Languages	6	3 3 3 3 3 3 3 3 3 3 3	
EEB573	Industrial Electronics	6	3	
EEB404	Electrical Machines	6	3	
EEB587	Design I	6	3	
EEB562	Transmission & Propagation	6	3	
EEB620	Control Systems Analysis	6	3	
MAB893	Engineering Mathematics III	6	3	
Semester 6				
EEB971	Applied Electronics OR	6	3	
EEB531	Electrical Power Transmission	6	3	
EEB967	Digital Communications	Ğ	3	
EEB621	Advanced Control Systems	6	3	
EEB602	Signal Processing	6	3 3 3 3 3 3 3 2	
EEB601	Realtime Operating Systems	6	3	
EEB788	Design II	8	3	
MAB894	Engineering Mathematics IV	6	3	
D	ONE General Elective	4		
EEB606	Industrial Experience III		5 weeks	
Semester 7	(Autumn)			
EEB662	Microwave & Antenna Technology OR	7	3	
EEB652	Power Electronics	7	3	
EEB968	Digital Signal Processing	7	3	
	OŘ			
EEB742	Power Systems Engineering	7	3	
EEB887	Design III	6	3	
EEB789	Project*	15	3 3 6 3 3	
EEB821	Production Technology & Quality	6	3	
	ONE Technical Elective	7	3	
Semester 8	(Spring)			
EEB890	Advanced Information Technology			
	Topics	8	3	
	OR	_	_	
EEB741	Power Systems Analysis	8	3 3 3 6	
EEB820	Engineering Management	8	3	
EEB888	Design IV Project*	10	3	
EEB789	ONE Technical Elective	15	3	
		,	J	
GENERALE			•	
ACB480	Personal & Corporate Finance	4	2	
EEB600	Starting a Technology Based Business	4	2	
ENB103 ISB393	General Elective	4 6	2	
MNB002	Computer Based Information Systems Psychology for Engineers	4	2	
MNB004	Management	4	2 2 2 2 2 2 2 2	
	0	•	-	
	L'ELECTIVES	-	7	
EEB962	Microwave Systems Engineering	7	3	
EEB961 EEB761	Communications Techniques Statistical Communications	7 7	3	
		'	L	
* This subjec	* This subject extends over two semesters			

* This subject extends over two semesters.

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MAB920	Coding & Encryption Techniques	12	3
EEB972	Integrated Electronic Techniques	7	3
EEB922	Computer Controlled Systems	7	3
EEB951	High Voltage Equipment	7	3
EEB944	Power Station Engineering	7	3
EEB954	Electrical Energy Utilisation	7	3
	OR		

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

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
MAB193 CSB191 PHB132 MEB121 EEB101 CHB002	Engineering Mathematics I* Introduction to Computing Engineering Physics IA Engineering Graphics Circuits & Measurements Introduction to Engineering Chemistry**	6 4 6 7 (2)	3 2 3 3 3 (1)
Semester 2	(Spring)		
MAB193 PHB232 CSB291 EEB203 EEB371 EEB272 EEB206	Engineering Mathematics I* Engineering Physics IIA Introduction to FORTRAN Circuit Analysis Electronic Devices Digital Principles Industrial Experience I	6 4 5 5 3	3 2 3 3 1.5 5 weeks
Semester 3			
MAB493 EEB303 EEB361 CMB108 EEB471	Engineering Mathematics II* Network Theory I Signals & Systems English for Technologists Electronics	6 7 7 6 7	3 3 3 3 3
Semester 4	(Spring)		
EEB202 MAB493 EEB401 MEB133 MEB111 EEB406	Electromagnetics Engineering Mathematics II* Network Theory II Materials I Dynamics Industrial Experience II	6 6 6 7	3 3 3 3 5 weeks
Semester 5	(Autumn)		
CEB102 EEB372 CEB184 MAB893 EEB302 CMB135	Civil Engineering I Sequential Logic Engineering Mechanics I Engineering Mathematics III Electrotechnology Communication for Engineers	3 7 6 6 2	1.5 3 3 3 1
Semester 6			
EEB472	Microprocessors	6	3

* This subject extends over two semesters. ** CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Grade 12 Chemistry.

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EEB520	Control Engineering	6	3
EEB400	Electrical Power Systems	6	ž
EEB473	Integrated Circuits	6	3
MAB894	Engineering Mathematics IV	6	3
EEB606	Industrial Experience III	U	5 weeks
BED000	moustrial Experience III		J WUUKS
Semester 7	(Autumn)		
EEB591	Systems Programming Languages	6	3
EEB404	Electrical Machines	6	3 3 3 3 3
EEB620	Control Systems Analysis	6	3
EEB573	Industrial Electronics	6	3
CSB490	Software Engineering	6	3
Semester 8	(Spring)		
			2
EEB561	Analogue Communications	6	3
EEB971	Applied Electronics OR	6	3
EEB531	Electrical Power Transmission	6	3
EEB430	Engineering Fields	6	3
EEB602		6	3 3
	Signal Processing	6	3
EEB601	Realtime Operating Systems	0	J
Semester 9	(Autumn)		
MEB171	Introduction to Manufacturing	3	1.5
EEB661	Information Theory & Noise	6	3
	OR	U	2
EEB553	Electrical Power Equipment	6	3
EEB562	Transmission & Propagation	6	3
EEB587	Design I	6	3 3 3
EEB968	Digital Signal Processing	7	3
	OR	_	_
EEB742	Power Systems Engineering	7	3
EEB821	Production Technology & Quality	6	3
Semester 1	0 (Spring)		
EEB967	Digital Communications	6	3
EEB621	Advanced Control Systems	6	ž
EEB788	Design II	8	3 3 3 3
EEB820	Engineering Management	8	ž
LLDOLO	ONE General Elective	4	2
	- /		
Semester 1	(Autumn)		
EEB887	Design III	6	3
EEB662	Microwave & Antenna Technology	7	3
	OR Description	7	2
EEB652	Power Electronics		3
EEB/89	Project*	15	6
	ONE Technical Elective	7	3
Semester 12	2 (Spring)		
EEB890	Advanced Information Technology Topics	8	3
	OR	~	2
EEB741	Power Systems Analysis	8	3
EEB888	Design IV	10	3 3
EEB789	Project*	15	6
	ONE Technical Elective	7	3
Elective Sub	iects		
Refer to Full-time Course Structure			

Refer to Full-time Course Structure.

* This subject extends over two semesters.

MEJ158 Bachelor of Engineering - Mechanical and Manufacturing Engineering+

Course Duration: 8 semesters full-time, 12 semesters part-time

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr R. Nicol

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Seiester 1	(Autumn)		
CSB191	Introduction to Computing	4	2
MEB121	Engineering Graphics	6	2 3 3
EEB101	Circuits & Measurement	7	3
CEB102 MEB171	Civil Engineering I	7 3 3	1.5 1.5
MAB193	Introduction to Manufacturing Engineering Mathematics I*	5	
CEB184	Engineering Mechanics I	7	3 3 3
PHB132	Engineering Physics IA	6	3
CMB108	English for Technologists	6	3
CHB002	Introduction to Engineering		
	Chemistry**	(2)	(1)
Semester 2	(Spring)		
MEBIII	Dynamics	7	3
CSB291	Introduction to FORTRAN	4	2
EEB202	Electromagnetics	6	3
CEB185	Engineering Mechanics II	7	3
MAB193	Engineering Mathematics I*	6	3
CHB344 MEB101	Engineering Chemistry M Design I	4 8	3 2 3 3 3 2 3
MEB133	Materials I	6	3
MEB200	Industrial Experience I	Ū	5 weeks
Semester 3	(Autumn)		
MEB381	Design II	6	3
MEB361	Fluids I	6	3
MEB370	Manufacturing Systems I	6	3
MEB313	Mechanics I	6	3
MAB493	Engineering Mathematics II*	6	3
EEB209 MEB250	Electrical Engineering IIM Thermodynamics I	6 6	2
MEB230	Materials II	6	3 3 3 3 3 3 3 3 3 3 3
		Ū	-
Semester 4		-	2
MEB483 MEB231	Design III Materials III	7 6	3
MEB251 MEB251	Thermodynamics II	6	3
MAB493	Engineering Mathematics II*	6	3
MEB462	Fluids II	Ğ	3
MEB472	Manufacturing Systems II	6	3
MEB411	Theory of Machines	7	3 3 3 3 3 3 3 3 2
	ONE Group A Elective Subject	4	2
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+ See Special Note, page 128. * This subject extends over two semesters.

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

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MEB300	Industrial Experience II		5 weeks
Semester 5	(Autumn)		
MEB510 MAB893 MEB550 MEB773 MEB339 MEB511 CMB136	Noise & Vibrations Engineering Mathematics III Heat Transfer Design for Manufacturing I Materials & Manufacturing Project Stress Analysis Technical Writing ONE Group B Elective Subject	7 6 7 6 7 2 7	3 3 3 3 3 3 1 3
Semester 6	(Spring)		
MEB640 MEB660 MEB670 MEB650 MEB463 MEB610 EEB273 MEB402	Automation I Fluid Power Industrial Engineering I Thermodynamics III Tribology Mechanics II Microcomputers in Engineering ONE Group C Elective Subject Industrial Experience III	7 6 6 6 6 6 4 7	3 3 3 3 2 3 5 weeks
Semester 7	(Autumn)		
MEB464 MEB911 MEB489 MEB771 MEB710 MEB772	Fluids III Finite Element Analysis Mechanical Design Project* Industrial Engineering II Automation II Engineering Project Appraisal ONE Group D Elective Subject	7 7 7 6 7 7 7	3 3 3 3 3 3 3 3
Semester 8	(Spring)		
MNB043 ACB481 MEB981 MEB489 MEB408	Industrial Management Financial Management for Engineers Design of Materials Handling Systems Mechanical Design Project* Project B (Mechanical) ONE Group E Elective Subject	6 6 7 16 7	3 3 3 6 3
ELECTIVE S	SUBJECTS		
Group A ACB480 EEB600 ENB103 ISB393 MNB002	Personal & Corporate Finance Starting a Technology Based Business General Elective Computer Based Information Systems Psychology for Engineers	4 4 4 4	2 2 2 2 2 2
Group B MEB531 MEB450 MEB500	Advanced Materials Air Conditioning Special Topic I	7 7 7	3 3 3
Group C MEB680 MEB976 MEB950 MEB601	Advanced Mechanical Design Computer Integrated Manufacturing Process Plant Design Special Topic II	7 7 7 7	3 3 3 3
Group D MEB977	Computer Control of Manufacturing Systems	7 7	3
MEB980 * This subjec	Design of Power Transmission Systems t extends over two semesters.	/	3



MEB701	Special Topic III	7	3
Group E MEB975 MEB960 MEB810 MEB800	Design of Manufacturing Systems Fluid System Design Industrial Noise & Vibration Special Topic IV	7 7 7 7	3 3 3 3
Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
MEB121 CEB184 MAB193 PHB132 CMB108 CHB002	Engineering Graphics Engineering Mechanics I Engineering Mathematics I* Engineering Physics IA English for Technologists Introduction to Engineering Chemistry**	6 7 6 6 6 (2)	3 3 3 3 3 (1)
Semester 2	(Spring)		
MEB133 CEB185 MAB193 MEB111 CHB344 MEB200	Materials I Engineering Mechanics II Engineering Mathematics I* Dynamics Engineering Chemistry M Industrial Experience I	6 7 6 7 4	3 3 3 2 5 weeks
Semester 3	(Autumn)		
MEB230 CSB191 MAB493 EEB101 MEB171 CEB102	Materials II Introduction to Computing Engineering Mathematics II* Circuits & Measurements Introduction to Manufacturing Civil Engineering I	6 4 7 3 3	3 2 3 1.5 1.5
Semester 4	(Spring)		
MEB101 CSB291 MAB493 EEB202 EEB273	Design I Introduction to FORTRAN Engineering Mathematics II* Electromagnetics Microcomputers in Engineering ONE Group A Elective Subject	8 4 6 4 4	3 2 3 3 2 2
Semester 5	(Autumn)		
MEB313 MEB361 MEB250 MAB893 MEB773	Mechanics I Fluids I Thermodynamics I Engineering Mathematics III Design for Manufacturing I	6 6 6 7	3 3 3 3 3 3
Semester 6	(Spring)		
MEB231 MEB411 MEB462 MEB251 MEB463 MEB300	Materials III Theory of Machines Fluids II Thermodynamics II Tribology Industrial Experience II	6 7 6 6 6	3 3 3 3 5 weeks

* This subject extends over two semesters. ** CHB002 Introduction to Engineering Chemistry is to be taken only by those students not obtaining a 'Sound Achievement' in Grade 12 Chemistry.



Semester 7	(Autumn)		
MEB381	Design II	6	3
MEB511 MEB550	Stress Analysis Heat Transfer	7 6	3 3 3 3 3
MEB550 EEB209	Electrical Engineering IIM	6	3
MEB370	Manufacturing Systems I	6	3
Semester 8	(Spring)		
MEB483	Design III	7	3
MEB670	Industrial Engineering I	6	3 3 3 3 3
MEB610	Mechanics II	6	3
MEB640	Automation I	7	3
MEB472	Manufacturing Systems II	6	3
Semester 9	(Autumn)		
MEB464	Fluids III	7	3
MEB510	Noise & Vibrations	7	3 3 3 3 1
MEB772	Engineering Project Appraisal	7	3
MEB911	Finite Element Analysis	7 2	3
CMB136	Technical Writing ONE Group B Elective Subject	7	3
C 1		·	5
Semester 1			_
MEB339	Materials & Manufacturing Project	6	3 3 3 3 3
MEB660 MEB981	Fluid Power	6 6	3
MEB650	Design of Materials Handling Systems Thermodynamics III	6	2
MLD050	ONE Group C Elective Subject	7	3
MEB402	Industrial Experience III	,	5 weeks
Semester 1	1 (Autumn)		
MEB489	Mechanical Design Project*	7	3
MEB409	Project A (Mechanical)*		3 3 3 3 3
MEB771	Industrial Engineering II	8 6	3
MEB710	Automation II	7	3
	ONE Group D Elective Subject	7	3
Semester 1	2 (Spring)		
MEB489	Mechanical Design Project*	7	3
MEB409		8	3
	Project B (Mechanical)*	0	5
MNB043	Industrial Management	6	3
MNB043 ACB481		6 6 7	3 3 3 3 3

SVJ159 Bachelor of Applied Science - Surveying+

Course Duration: 6 semesters full-time

Total Credit Points: 288

Standard Credit Points/Fnll-Time Semester: 48

Course Co-ordinator: Mr R. Freeman

* This subject extends over two semesters. + See Special Note, page 128.



Special Course Requirement

For successful completion of the course a student must have completed at least 18 weeks of approved employment. For the employment to be recognised, the student must submit details of the work experience on an industrial experience record form or diaries provided for the purpose and certified by the employer. Should employment exceed the minimum required, it is strongly recommended that the details also be recorded in the diaries and certified by the employer as a record of experience which may be used when seeking registration or licensing by the Board of Surveyors.

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
MAB199	Survey Mathematics I	12	6
SVB121	Land Surveying I	13	6
SVB111	Data Presentation I	6	3 3
CSB294	Computer Programming	6	
SVB352	Land Studies A*	6	6
SVB282	Seminar I	5	2
Semester 2	(Spring)		
MAB495	Survey Mathematics II	12	6
SVB226	Land Šurveying II	13	6
SVB270	Land Administration I	6	3
MAB499	Basic Statistics for Surveyors	5	23
SVB211	Data Presentation II	6	3
SVB352	Land Studies A*	6	6
SVB199	Industrial Experience I		6 weeks

At the end of Semester 2, students must select either the Surveying or Cartography Strand and must obtain vacation practice in that area.

SURVEYING STRAND

OOM (DI III)	o bila lite		
Semester 3	(Autumn)		
SVB393 ·	Land Surveying III	10	5
PHB170	Physics for Surveyors	12	6
MAB795	Survey Mathematics III	6	6 3 2 3 3 3
SVB573 ·	Land Administration III	6	3
SVB331 ·	Observations & Adjustments I	4	2
SVB311 ·	Data Presentation III	5	3
$SVB473 \cdot$	Land Information Systems I	5	3
Semester 4	(Spring)		
SVB430 ·	Land Surveying IV	9	4
SVB442 ·	Geodetic Computations	9	4
SVB343 ·	Photogrammetry I	6	4 3 2 2 3 3
CEB364 ·	Engineering Science II	6	3
SVB431 ·	Observations & Adjustments II	4	2
SVB574 ·	Land Administration IV	4 5 5	2
SVB412 ·	Cartographic Practice	5	3
SVB451 ·	Land Studies B	5	3
SVB299	Industrial Experience II		6 weeks
Semester 5	(Autumn)		
SVB561	Land Development Practice I	10	6
SVB551	Land Valuation	6	6 3 3 2
SVB535	Land Surveying V	5	3
SVB571	Cadastre	4	2
* This subject	t artands over two semesters		

* This subject extends over two semesters

SVB443	Photogrammetry II	11	6
SVB563	Land Information Systems II	4	Š
SVB683		4	2 2 2
	Project*		2
SVB470	Land Administration II	4	2
Semester 6	(Spring)		
SVB680	Professional Practice	4	2
		6	3
SVB682	Seminar II	2	1
SVB683	Project*	4	2 3 3
SVB636	Land Surveying VI	6	3
SVB640	Geodesy	6	3
SVB639	Observations & Adjustment III	4	2
SVB664	Land Development Practice II	10	6
SVB399	Industrial Experience III		6 weeks
0.20	TWO Elective Subjects	10	6
	APHY STRAND		
Semester 3			
MAB795	Survey Mathematics III	6	3
PHB170	Physics for Surveyors	12	6
SVB573	Land Administration III	6	6 3 2 3 5
SVB331	Observations & Adjustments I	4	ž
SVB311	Data Presentation III	5	2
ARB911			5
	Graphic Design I	10	2
SVB473	Land Information Systems I	5	3
Semester 4	(Spring)		
SVB451	Land Studies B	5	3
SVB442	Geodetic Computations	9	1
		6	3 4 3 2 2 3
SVB343	Photogrammetry I		3
SVB431	Observations & Adjustments II	4	2
SVB574	Land Administration IV	4	2
SVB412	Cartographic Practice	5	
ARB912	Graphic Design II	9	4
SVB299	Industrial Experience II		6 weeks
Semester 5	(Autumn)		
		10	
SVB561	Land Development Practice I	10	6
SVB443	Photogrammetry II	11	6
SVB470	Land Administration II	4	2
SVB563	Land Information Systems II	4	2
SVB571	Cadastre	4	2 2 2 4
SVB685	Project*	8	4
Semester 6	(Spring)		
SVB680	Professional Practice	4	2
		6	3
SVB682	Seminar II	2	1
SVB639	Observations & Adjustments III	4	2
SVB664	Land Development Practice II	10	6
SVB685	Project*	8	4
SVB399	Industrial Experience III		6 weeks
	TWO Elective Subjects	10	6
FIFOTIO	F SUD LECTS		
	E SUBJECTS	_	
SVB670	Land Administration V	5 5 5 5 5 5 5	3
SVB684	Map Production Planning	5	3
CEB504	Engineering Science III	5	3
SVB694	Geodesy II	5	3
SVB634	Topics in Engineering Surveying	5	3
SVB643	Photogrammetry III	5	3
SVB645	Remote Sensing	5	3 3 3 3 3 3 3 3
* This subias			-

* This subject extends over two semesters.

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CEL187 Associate Diploma in Civil Engineering+

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

Course Duration: 4 semesters full-time, 8 semesters part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Robin Black

Full-Time	Course Structure		Credit Points	Contact Hrs/Wks
(D) indicat	es day only; (E) indicates evenin	g only.		
	l (Autumn)			
MET120 MET141 CET135 SVT306 EET790 CET195 CET894 MET121	Engineering Drawing I Materials (Civil) Engineering Mechanics Engineering Surveying Computer Programming I Civil Engineering I Computations A Drafting Practice IA		7 7 7 7 7 7 3 3	3 3 3 3 3 3 3 3 3
Semester 2	2 (Spring)			
CET286 CET255 CET435 CET645 CET815 CET365 CET287 CET235	Civil Office Practice Structural Mechanics Concrete Practice Soil Mechanics Road Location & Design Hydraulic Engineering Civil Office Practice A Laboratory Practice A		7 7 7 7 7 3 3	3 3 3 3 3 3 3 3 3 3
Semester :	3 (Autumn)			
CET585 CET756 CET775 CET565 CET655	Civil Engineering Drafting Building Construction Practice Public Health Engineering Road & Drainage Engineering Concrete & Steel Design OR		7 7 7 7 7 7	3 3 3 3 3 3
CET606 CET387 CET306	Construction Management Civil Engineering Drafting A Field Practice IA ONE Elective Subject	(E)	7 3 3 7	3 3 3 3
Semester	4 (Spring)			
CET787	Structural Engineering Drawing OR		7	3
CET709 CET887	Safety & Industrial Relations Computer Aided Drafting	(E)	7 7	3 3

+ See Special Note, page 128.

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	OR			
CET837	Laboratory Practice	(E)	7	3
CET704	Civil Construction Practice		7	3
CET708	Specifications & Estimates		7	3
CET495	Project A		3	3
CET405	Field Practice IIA		3	3
	TWO Elective Subjects		14	6

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

Part-Time Course Structure

Part-time students shall have engaged in at least 120 weeks of approved employment, i.e., 15 weeks for each of the eight Industrial Employment subjects, before being eligible for the Associate Diploma award. For the employment to be recognised, students must submit an industrial experience record form, provided for the purpose, which has been completed by both the student and the employer.

Semesters 1 to 4 are common to the General and Water and Wastewater Process Operation Strands

		Credit Points	Contact Hrs/Wks
Semester 1	(Autumn)		
MET120 CET195 CET135 ENT100	Engineering Drawing I Civil Engineering I Engineering Mechanics Industrial Employment I	7 7 7 3	3 3 15 weeks
Semester 2	(Spring)		
CET286 CET255 MET141 ENT200	Civil Office Practice Structural Mechanics Materials (Civil) Industrial Employment II	7 7 7 3	3 3 3 15 weeks
Semester 3	(Autumn)		
CET645 EET790 SVT306 ENT300	Soil Mechanics Computer Programming I Engineering Surveying Industrial Employment III	7 7 7 3	3 3 3 15 weeks
Semester 4	(Spring)		
CET815 CET435 CET365 ENT400	Road Location & Design Concrete Practice Hydraulic Engineering Industrial Employment IV	7 7 7 3	3 3 3 15 weeks
GENERAL S	STRAND		
Semester 5	(Autumn)		
CET585 CET565 CET775 ENT500	Civil Engineering Drafting Road & Drainage Engineering Public Health Engineering Industrial Employment V	7 7 7 3	3 3 15 weeks
Semester 6	(Spring)		
CET655	Concrete & Steel Design OR	7	3

CET709 CET708 CET756 ENT600	Safety & Industrial Relations Specifications & Estimates Building Construction Practice Industrial Employment VI	(E)	7 7 7 3	3 3 3 15 weeks
Semester '	7 (Autumn)			
CET787	Structural Engineering Drawing OR		7	3
CET606 CET704	Construction Management Civil Construction Practice ONE Elective Subject	(E)	7 7 7 3	3 3 3
ENT700	Industrial Employment VII		3	15 weeks
Semester 8	8 (Spring)			
CET887	Computer Aided Drafting OR		7	3
CET837	Laboratory Practice TWO Elective Subjects		7 14	3 6
ENT800	Industrial Employment VIII		3	15 weeks
Elective Subjects For General Strand - Full-Time and Part-Time Study				
Electives ((Autumn)			
CET797 CHA145 CET707 CET735 CET703	Project I Introductory Chemistry Municipal Engineering Advanced Laboratory Testing I Civil Engineering Practice I	(E) (E)	7 8 7 7 7	3 3 3 3 3
Electives ((Spring)			
CET797 EST219 CET888 CET856 CET838 CET802	Project I Engineering Geology Structural Drawing & Design Formwork Design Advanced Laboratory Testing II Civil Engineering Practice II	(E) (D)	7 7 7 7 7 7 7	3 3 3 3 3 3 3 3

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

The number of elective subjects available will be dependent upon a sufficient number of students being enrolled.

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

(Semesters 1 to 4 are common to the General Strand)

WATER AND WASTEWATER PROCESS OPERATION STRAND

Semester 5	(Autumn)		
CET585	Civil Engineering Drafting	7	3
CET565	Road & Drainage Engineering	7	3
CET775	Public Health Engineering	7	3
ENT500	Industrial Employment V	3	15 weeks
	OR		
CET598	Project II	21	9
ENT500	Industrial Employment V	3	15 weeks
Semester 6	(Spring)		
CET776	Equipment Operation & Maintenance	7	3
CHA145	Introductory Chemistry	8	3

CHA644 ENT600	Process Measurement & Monitoring I Industrial Employment VI	7 3	3 15 weeks
Semester 7	(Autumn)		
CET606	Construction Management	7	3
CET777	Process Operation & Control I	7	3
CHA744	Process Measurement & Monitoring II	7	3
ENT700	Industrial Employment VII	3	15 weeks
Semester 8	(Spring)		
CET876	Plant Operation & Maintenance	7	3
CET877	Process Operation & Control II	7	3
CHA844	Trade Waste Control	7	3
ENT800	Industrial Employment VIII	3	15 weeks

EEL188 Associate Diploma in Electrical Engineering+

Course Duration: 2 semesters full-time plus 4 semesters part-time, or 8 semesters part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Jim Lyall

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

		Credit Points	Contact Hrs/Wk
Computer Systems Module			
EET590 Microprocessor Systems	(a)*	7	3
EET690 Computer Organisation	(b)	7	3 3 3
EET791 Computer Programming II	(c)	7	3
EET891 Advanced Computing Techniques	(d)	7	3
Industrial Systems Module			
EET522 Control Systems II	(a)	7	3
EET678 Applied Electronics	(b)	7	3 3 3 3
EET720 Modern Control Technology	(c)	7	3
EET870 Industrial Electronics	(d)	7	3
Power Module			
EET642 Electrical Power Systems I	(a)	7	3
EET650 Electrical Equipment	(b)	7	3 3 3 3
EET753 Testing & Commission Techniques		7	3
	(d)	7	3
Telecommunications Module			
EET560 Communications Engineering I	(a)	7	3
EET737 Transmission & Propagation	(b)	7	3 3 3 3
EET760 Communications Engineering II	(c)	7	3
EET860 Communications Technology	(d)	7	3

+ See Special Note, page 128. * See page 149.



Full-Time	/Part-Time Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	l (Autumn)		
EET111 EET211 EET100 CST390 MET101 MET175 MET123 MET475	Electrical Engineering I Electrical Engineering II Electrical Engineering Computations Computer Programming I Engineering Drawing Workshop (Mech) IA Electrical Engineering Drawing IA Workshop (Mech) IIIA	7 7 7 7 3 3 3	3 3 3 3 3 3 3 3 3 3 3
Semester 2	2 (Spring)		
EET350 EET270 EET420 EET460 EET676 EET490 MET201 MET223	Electrical Engineering III Electronics I Control Systems I Telecommunications Digital Electronics Computer Packages Applied Mechanics Electrical Engineering Drawing IIA	7 7 7 7 7 7 3	3 3 3 3 3 3 3 3 3 3 3
Semester :	3 (Autumn)		
EET570 ENT500	Electronics II Major 1(a) Major 2(a) Industrial Employment V	7 7 7 3	3 3 3 15 weeks
Semester 4	4 (Spring)		
MET600 MET601 ENT600	Materials for Electrical Engineers Mechanical Plant Major I(b) Major 2(b) Industrial Employment VI	4 3 7 7 3	1.5 1.5 3 15 weeks
Semester !	5 (Autumn)		
ENT700	ONE Elective Subject Major 1(c) Major 2(c) Industrial Employment VII	7 7 7 3	3 3 3 15 weeks
Semester (EET880		7	2
EET880	Design Major 1(d) Major 2(d) Industrial Employment VIII	7 7 7 3	3 3 15 weeks

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

Students enrolled in the one year full-time/two years part-time Associate Diploma in Electrical Engineering shall have engaged in at least 60 weeks of approved employment, i.e., 15 weeks for each of the four Industrial Employment subjects, before being eligible for the Associate Diploma award. An industrial experience record form, as for part-time students, must be submitted.

Part-Time Course Structure

Part-time students shall have engaged in at least 120 weeks of approved employment, i.e., 15 weeks for each of the eight Industrial Employment subjects, before being eligible for the Associate Diploma award. For the employment to be recognised, students must submit an industrial experience record form, provided for the purpose, which has been completed by both the student and the employer.

		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
EET111 EET100 MET101 ENT100	Electrical Engineering I Electrical Engineering Computations Engineering Drawing Industrial Employment I	7 7 7 3	3 3 15 weeks
Semester 2	(Spring)		
EET211 EET270 MET201 ENT200	Electrical Engineering II Electronics I Applied Mechanics Industrial Employment II	7 7 7 3	3 3 15 weeks
Semester 3	(Autumn)		
EET350 CST390 EET676 ENT300	Electrical Engineering III Computer Programming I Digital Electronics Industrial Employment III	7 7 7 3	3 3 3 15 weeks
Semester 4	(Spring)		
EET420 EET460 EET490 ENT400	Control Systems I Telecommunications Computer Packages Industrial Employment IV	7 7 7 3	3 3 3 15 weeks
Semester 5	(Autumn)		
EET570 ENT500	Electronics II Major 1(a) Major 2(a) Industrial Employment V	7 7 7 3	3 3 3 15 weeks
Semester 6	(Spring)		
MET600 MET601 ENT600	Materials for Electrical Engineers Mechanical Plant Major I (b) Major 2(b) Industrial Employment VI	4 3 7 7 3	1.5 1.5 3 15 weeks
Semester 7	(Autumn)		
ENT700	ONE Elective Subject Major 1(c) Major 2(c) Industrial Employment VII	7 7 7 3	3 3 3 15 weeks
Semester 8	(Spring)		
EET880 ENT800	Design Major 1(d) Major 2(d) Industrial Employment VIII	7 7 7 3	3 3 3 15 weeks



ENGINEERING

Notes

- 1. Majors 1 and 2 refer to subjects taken from two of the four modules, viz., Computer Systems, Industrial Systems, Power or Telecommunications; (a), (b), (c) and (d) refer to subjects within each module.
- 2. For the elective, a subject may be chosen from any other module which runs in the same semester. Degree level subjects may be selected as electives with the approval of the Head of School.
- 3. A registered student who has completed the following trade courses in Queensland may apply to be exempted the following subjects. Prior approval is not necessary to gain exemption if these courses are studied concurrently with a QUT course. A student enrolled in an apprenticeship training course who wishes to defer a subject, in anticipation of an exemption, must make written application to the Registrar.
- □ EET111 Electrical Engineering I Fitter (Instrumentation); Electrical Fitter and/or Mechanic; Radio and/or Television Mechanic; Telecommunications Certificate
- □ EET350 Electrical Engineering III -Electrical Fitter and Mechanic

MEL189 Associate Diploma in Mechanical Engineering*

Course Duration: 4 semesters full-time, 8 semesters part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Richard Hall

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

* See Special Note, page 128.



Semester 4	(Spring)		
MET420	Engineering Drawing IV	7	3
MET961	Fluid Mechanics	7	3
MET350	Process Engineering	7	3
MET573	CAD/CAM Technology	7	3
MET971	Industrial Practice	7 7 3 3 7	3 3 3 3 3 3 3 3
MET650	Plant Engineering IA	3	3
MET421	Mechanical Project IA	3	3
	ONE Elective Subject	7	3
ELECTIVE	SUBJECTS - AUTUMN		
MET733	Industrial Metallurgy	6	3
MET782	Jig & Tool Design	6	3
MET511	Noise, Stress & Vibration Practice	6	3 3 3 3 3 3 3 3 3
MET901	Sugar Mill Technology I	6	3
MET850	Energy Management	6	3
MAB193	Engineering Mathematics I**	6	3
PHB132	Engineering Physics IA**	6	3
EEB101	Circuits & Measurements**	7	3
ELECTIVE	SUBJECTS - SPRING		
MET680	Machine Elements II	7	3
MET960	Fluid Power	7	3
MET352	Air Conditioning & Refrigeration	7	3
MET902	Sugar Mill Technology II	7	3
MAA251	Statistics & Data Processing	8	3
MAB193	Engineering Mathematics I**	6 7	3 3 3 3 3 3 3 3 3
MEB111	Dynamics**	7	3

Notes

- 1. From time to time a series of special electives may be made available to meet industrial demand provided both student numbers and staff resources can justify their inclusion in the course.
- 2. Degree level subjects (**) may be selected as electives with the approval of the Head of School.
- 3. Exemption from the practical experience subjects, designated by the suffix A after the subject name in the full-time courses, may be granted on the basis of appropriate industrial experience. Written application must be made to the Registrar on an 'application for exemption form'.
- 4. A registered student who has completed the following trade courses in Queensland may apply to be exempted the following subjects. Prior approval is not necessary to gain exemption if these courses are studied concurrently with a QUT course. A student enrolled in an apprenticeship training course who wishes to defer a subject, in anticipation of an exemption, must make written application to the Registrar.
- D MET170 Manufacturing Technology Mechanical Fitter; Toolmaker

Part-Time Course Structure

Part-time students shall have engaged in at least 120 weeks of approved employment, i.e., 15 weeks for each of the eight Industrial Employment subjects, before being eligible for the Associate Diploma award. For the employment to be recognised, students must submit an industrial experience record form, provided for the purpose, which has been completed by both the student and the employer.



		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
MET120 MET140 MET210 ENT100	Engineering Drawing I Engineering Materials I Applied Mechanics I Industrial Employment I	7 8 8 3	3 3 15 weeks
Semester 2	(Spring)		
MET220 MET310 MET433 ENT200	Engineering Drawing II Applied Mechanics II Engineering Materials II Industrial Employment II	8 8 3	3 3 15 weeks
Semester 3	(Autumn)		
MET320 MET940 MET560 ENT300	Engineering Drawing III Mechanical Measurements Thermofluids Industrial Employment III	6 8 8 3	3 3 3 15 weeks
Semester 4	(Spring)		
MET420 CSA165 MET170 ENT400	Engineering Drawing IV Computing Manufacturing Technology Industrial Employment IV	7 7 8 3	3 3 3 15 weeks
Semester 5	(Autumn)		
MET580 MET250 EET500 ENT500	Machine Elements I Thermodynamics Electrical Technology Industrial Employment V	6 6 3	3 3 15 weeks
Semester 6	(Spring)		
MET961 MET573 MET920 ENT600	Fluid Mechanics CAD/CAM Technology Computer Aided Design & Drafting Industrial Employment VI	7 7 6 3	3 3 15 weeks
Semester 7	(Autumn)		
MET572 MET933 ENT700	Production Planning & Control Industrial Tribology ONE Elective Subject	6 6 3	3 3 3 15 weeks
	Industrial Employment VII	3	1 J WCCV2
Semester 8	_ · · · _ · · · · · · · · · · · · · · ·	7	3
MET350 MET971	Process Engineering Industrial Practice ONE Elective Subject	7 7	3 3 3
ENT800	Industrial Employment VIII	3	15 weeks

Elective Subjects

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

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SVL212 Associate Diploma in Cartography*

Course Duration: 8 semesters part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Bruce Chapman

Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
SVT113 SVT115 SVT471	Introductory Cartography Cartographic Computations I Land Laws & Regulations	8 8 8	3 3 3
Semester 2	(Spring)		
SVT222 SVT225 SVT243	Survey Drafting Surveying Photogrammetry I	8 8 8	3 3 3
Semester 3	(Autumn)		
SVT315 SVT316 SVT343	Cartographic Computations II Land Studies I Photogrammetry II	8 8 8	3 3 3
Semester 4	(Spring)		
SVT991 SVT426 SVT443	Computer Graphics I Land Studies II Photogrammetry III	8 8 8	3 3 3
Semester 5	(Autumn)		
SVT715 SVT513 SVT511	Cartography I Digital Mapping CAD Systems	8 8 8	3 3 3
Semester 6	(Spring)		
SVT815 SVT642 SVT626 SVT623	Cartography II Map Projections I Seminar Project Mapping	8 8 4 4	3 1.5 1.5
Semester 7	(Autumn)		
SVT915 SVT992 SVT742	Cartography III Computer Graphics II Map Projections II	8 8 8	3 3 3
Semester 8	(Spring)		
SVT916 SVT945 SVT826	Cartography IV Remote Sensing Cartographic Administration	8 8 8	3 3 3

* See Special Note, page 128,



	e Course Structure for Who Commenced Prior to 1988	Credit Points	Contact Hrs/Wk
Semesters	1, 2, 3, 4, 5 and 6 are no longer offered		
Semester	7 (Autumn)		
SVT915	Cartography III	8	3
SVT991	Computer Graphics I	8	3
SVT945	Remote Sensing	8	3
Semester	8 (Spring)		
SVT916	Cartography IV	8	3
SVT992	Computer Graphics II	8	3
MNA012	Administrative Practice	8	3

Recognition by Professional Bodies

After successful completion of courses offered within the Faculty of Engineering the following professional recognition is available.

Associate Diploma in Engineering

Membership: Australian Institute of Engineering Associates Institute of Draftsmen, Australia (Qld Division)

Associate Diploma in Cartography Membership: Associate, Australian Institute of Cartographers

Bachelor of Engineering - Civil Bachelor of Engineering - Electrical and Computer Engineering Bachelor of Engineering - Mechanical Membership: The Institution of Engineers, Australia

Bachelor of Engineering - Electrical and Computer Engineering Membership: Institution of Radio and Electronics Engineers

Bachelor of Engineering/Bachelor of Applied Science - Electronics and Computing

Membership: The Institution of Engineers, Australia Institution of Radio and Electronics Engineers, Australia Australian Computer Society

Bachelor of Engineering/Bachelor of Business - Manufacturing Systems and Management

Membership: The Institution of Engineers, Australia Diploma: Australian Institute of Export

Bachelor of Applied Science - Surveying/Bachelor of Business - Information Management

Membership: Australian Computer Society Institution of Surveyors, Australia Registration: Surveyors Board of Queensland

Graduate Diploma in Surveying Practice

Membership: Institution of Surveyors, Australia Registration: Surveyors Board of Queensland



General Information

Staff

Dean: Professor H.J.B. Corderoy, BTech(Merit)(NSW), MEngSc(NSW), PhD(NSW), Barrister of the Supreme Court, NSW, FIEAust NOTE Co-ordinators: W. Mathieson, AssocDipMechEng(QIT), MAIEA, MID, StudIEAust. D Messer - BSc(Geology) Faculty Administration Officer: Mrs J. Mannion, BA(Qld), GradDipCommComputing(QIT) Faculty Budget/Room Allocation Officer: Mr N. Harris Faculty Alumni Officer: Mrs B. Hosegood

School of Civil Engineering

Head of School: Professor K.B. Wallace, DipCE(RMIT), BE(Melb), MEngSc(Melb), PhD(Melb), MIEAust, MSAGS, MASEE Principal Lecturer: Associate Professor G.H. Brameld, BE(Hons)(Old), MEngSc(Old), BCom(Old), PhD(Old), MIEAust, MIABSE Senior Lecturers: D.L. Beal - BE(Qld), MEngSc(NSW), MSc(Lond), DIC(Lond), MIEAust R.G. Black, BE(Old), MEngSc(Old), MIEAust, MAWWA B.T. Boyce, ME(Cant), BE(Cant), MSc(Lond), DIC(Lond), MIEAust, MIPENZ, CEng, MICE, MAGS C.R. Button, BE(Old), MUrb&RegPlg(Old), LGE, MIEAust R.J. Heywood, BE(Hons)(Qld), MEngSc(Qld), MIEAust, MAISC, MAWI, MICE T.L. Piggott, BE(NSW), MSc(Dublin), MIEAust, MAWWA, RPEO B. Rigden, BSc(Eng)(S'hampton), MIEAust, CEng, MICE, FIWEM, MAWWA R.J. Troutbeck, PhD(Qld) BE(Melb), MEngSc(Melb), MIEAust Lecturers: F. Bullen, BSc(Met)(N'castle), BE(Hons)(N'castle), ME(N'castle), MIEAust, MSPE(PNG), MAGS Z.R. Duczmal, BTech(QIT), MEngSc(Qld), MIEAust, MASCE W.C. Hodgson, DipCE(STC), MIEAust, MCIA C. Macdonald, BSc, HNC, DipTransEng, MSc(Birm), CEng, MICE, MIHT, MIEAust P. Williams, MEng(QIT), BTech(QIT), GradDipEnvEng(QIT), LGE, MIEAust, MAWWA, AMLGEA H. Wong, DipCE, MSc(Leeds), MIEAust, CEng, MIStructE, MASCE, RPEQ L.S. Wong, BE(NSW), MEngSc(Malaya), MIEAust Senior Instructor: E.L. Perkins, Land&EngSurvDraftingCert(STC), MID Senior Tutor: T. Lawson, BEng(Hons), CertCivEng(DOT), GradIEAust Tutors: B. Burkett, BEng, GradIEAust S. Wilkinson, BEng(Hons), GradIEAust Laboratory Manager: J. Eaton, ElecMechCertCivilEng Senior Technicians: D. Gittins, MIQA, GradIERE T. Laimer, CertLabTech, CertChem G. Rasmussen, CertCivilEng P. Watson, BSc(Hons)(ANU) Support Staff:

C. Bynon (Carpenter); W. Gidley; J. Grandy (Fitter and Turner); L. Nicol BE(Qld); G. Ramsay BAppSc; M. Rosoman; J. Shaw; N. Tooth (AircraftEng); C. Van Oostrum



Testing Services: E. Costello CertCivilEng(NZ); E. Thomas; B. Pelin (Fitter and Turner)

School of Electrical and Electronic Systems Engineering Head of School: Professor M.P. Moody, BE(Hons)(Old), MEngSc(Old), BA(Old), PhD(Qld), FIEAust, FIREE, SMIEEE, MACE, MACES, MAES, RPEQ School Administration Officer: Mrs N. Bennett, BA(DDIAE) Senior Lecturers: D. Abeyasekere, BSc(Ceylon), MSc(Hons)(Melb), PhD(Melb), SMIREE D. Birtwhistle, BTech, MSc(Bradford), CEng, MIEAust, MIEE P.K. Boddington, MSc(Warwick), MIEEE J. Edwards, MSc(Bath), DipComputerSc(Old), CEng, MIEE, MIEEE D.W. Hainsworth, BE(Hons)(Qld), PhD(Qld), MIEEE, SMIREE J.S. Lyall, BE(Old), BSc(Old), ME(Old), MIEAust, MIEEE S. Sridharan, BSc(Eng)(Ceylon), MSc(Manch), PhD(NSW), MIEAust, CEng, MIEE, SMIEEE Lecturers: K. Alam, BSc(Hons)(Pakistan), MScEng(Bangladesh), PhD(Old) G.N. Beikoff, BSc(Old), AssDipEE(Education Dept), MIEAust, MACS T.W. Cooper, PolyDip(Lond), MTech(Brunel), CEng, MIEE K.R. Curwen, MA(Camb), GradDipAutoControl(QIT), MIEAust, RPEQ K. Hoffman, BSc(Hons)(C'town), MSc(C'town), MSAIEE, PrEng(SA) E.W. Palmer, BSc(Old), BE(Old), GradDipT(Kelvin Grove), MIEEE J.R. Ryan, BE(Hons)(Qld), MEngSc(Qld), MIEAust, MIEEE, MANZSES T.G. Tang, BE(Hons)(Qld), PhD(Qld), MIEAust, MIEEE H.T. Tsui, PhD(Birm), MSc(Manch), BSc(HKU), CEng, MIEEE, MIEE I.K. Vosper, AssocDipElecEng, MEngSc(Old), GradDipBusAdmin(OIT), MIEAust, MIEEE P.A. Wilson, MEng(QIT), BSc(Hons)(Salf), SMIREE, MIEEE G.J. Winstanley, BEng, GradDipAutoControl, DipCompSc(Qld), SMIREE, MIEEE Senior Instructor: M.F. McManus, CertElecEng(DDIAE) Senior Tutor: R. Prandolini, BEng(Hons) Tutors: M. Dawson, BEng(Hons)(QUT), MIEEE J. Miorandi, BE(Hons)(Qld) R. Pietzel, BEng(Hons) Senior Technologist; K. McIvor, BEng(OIT) Technologists: D. Rush, BEng(Hons)(QIT) B. Chadwick, BEng(Hons)(QIT) Support Staff: B. Binger; D. Gill; W. Rail Senior Technicians: P. Alick, AssocDipElecEng S. Chan, City & Guilds(London), CertDigitalComputers(Hong Kong) G. Eyre, AssocDipElecEng J. Lewis D. Robinson, AssocDipElecEng Technicians: H. Bishop; R. Christie; A. Clay FCertCompElec; W. Gane; M. Stennett: H. Van der Weerd



School of Mechanical and Manufacturing Engineering

Head of School: Professor W.C.K. Wong, PhD(Birm), MSc(Aston), FRMIT, CEng, FIEAust, MIMechE, MIProdE, SrMemSME, SrMemAIIE *Principal Lecturers:*

J.W. Laracy, BE(Qld), ME(Qld), MEngSt(Qld), FIEAust, MAIRAH, MASSCT Associate Professor W. Scott, MSc(Leeds), PhD(Leeds), CEng, MIMechE, MSTLE Senior Lecturers:

A.G. Crooks, ARMIT(Metall), MSc(Qld), CEng, AMMI, FIW

D.J. Hargreaves, BEng(Mech)(QIT), MSc(Distinction)(Leeds), PhD(Leeds),

MIEAust, AMIMechE, MASSCT, MSTLE

J.M. Kelly, AssDipME, DipM&EEng, MEngSc(NSW), MIEAust

R.W. Nicol, BE(Hons)(Qld), MEngSt(Qld), MIEAust

D.J. Nuske, DipM&EEng, MSc, PhD(Manchester)

Lecturers:

D.T. Baddeley, BSc(Qld), MSc(Cranfield), ARMIT(Metall), CEng, MIM, MAIMM, MIMMA

G. Chadwick, BSc(Preston), MSc, PhD(Cranfield)

A. DeJong, DipMechEng, DipM&EEng, MEng(QIT), MIEAust, SMSME

R.E. Hall, CertMechEng, BSc(Merit)(NSW), ME(W'gong), MIEAust

N.E. Holmes, BSc(Mech&Prod)(Trent), MSc(Aston), PhD(Aston)

R.M. Iyer, BScEng(Hons)(Sri Lanka), PhD(Newcastle), MIEAust, ISES

G.M. Kassay, HNC(MechEng), BTech(QIT), CertEd(Leeds)

R.K. Kirkcaldie, BE(Met)(Qld), MEngSc(Qld), AMAustIMM, MIMMA

B.D. Mathiesen, AssocDipMechEng, MIEAust

G.Y. O'Sachy, AssDipME, MEngSc(Newcastle), GradDipBusAdmin(QIT), MIEAust

P.R. Ridley, BE(Hons)(Qld), MEngSc(Melb)

C.C. Tan, BSc(Hons)(Lond), PhD(Lond), MIMechE, MIEAust

K. Travers, HND, BTech(QIT), BSc(Qld), MIEAust, GradIMechE, MAWI

Technologist: P.W. Baker, BE(Met)(Qld), MEngSc(Qld), MIEAust

Tutor: B. Fiddes, DipMechEng, MIEAust

Senior Instructor: N.F. Munro, CertMechEng(QIT), MAIEA

Terotechnology Centre:

Director, Assoc Prof. W. Scott, MSc(Leeds), PhD(Leeds), CEng, MIMechE, MSTLE Manager, K. Palmer, CertIndMetall(STC), TEng, AMIM, MAIMM Technologist: R. Tumney, BEng(QIT) Laboratory Manager: R. Magnus, Full TechCert, CGLI(Eng), ONC Senior Technicians: D.R. Allen CertIndMetall; G.J. Duce; M. Halliday CertMetall; E. Schilling CertMetrol; J.W. Turnbull CGLI(Eng) Support Staff: B.J. Albone; S.A. Bihari; R. Fielding; D. Gordon HNC; J.F. Harte; R. Hinckley ONC,

AssocDipElecEng; W.R. Luckhoff; T.A. Maitland; W.J. Maxwell; P.J. McIntosh; I. Peterson AssocDipMechEng; J.A. Small

Department of Surveying

Head of Department: Professor K. Kubik, BSc(Delft), DipEng, Dr Techn(Tech Uni Vienna), MASPRS MISAust Senior Lecturers:

R.A. Freeman, BSurv(Qld), GradDipSurv&MapSc(Qld), LS(Qld), MISAust J.T.C. Glasscock, BSurv(Qld), MUrbSt(Qld), MSc(Oxon), DipT&CP(QIT), FISAust, MAIC



ENGINEERING

B.J. Hannigan, BA(Macq), MSurvMap(Qld), LS(Qld & NSW), FISAust, MAIC, MAIMES R.B. Ralston, BSurv(Qld), LS(Qld), RS(NSW), MISAust, MAIMES *Lecturers:* J. Cook, BSurv, BA, BEcon(Qld), LS(Qld), MISAust

M. Harris, MSurv(Qld), MISAust, MAIMES

S.L. Humphries, GradDipSurvPrac(QUT), BAppSc(Surv), CertSurvTech, LS, MISAust, MIEMSAust K. Jones, BSurv(Qld), MSurv(Qld), LS(Qld), MISAust, MISPRS B.R. Pathe, GradDipEComp(Bendigo), LS(Vic), MISAust Senior Instructor: B. Chapman, CertCartog(QIT), AMAIC Support Staff:

C. Cook; M. Friend; M. Seydel

Prizes and Awards

The majority of prizes awarded to students in the Faculty of Engineering are determined on the basis of excellence in subjects nominated by the prize donor, and students do not apply for the awards. However, a few prizes do require students to apply to be considered.

* AFCC Civil Engineering Award

Donated by the Australian Federation of Construction Contractors and awarded to the student from the Bachelor of Engineering - Civil course who has achieved a sound academic record and who is seen as likely to make a significant contribution to the construction industry. The candidates for this award will be interviewed by the AFCC who will make the final selection.

* AFCC Construction Industry Award

Awarded to a student from one of the courses Bachelor of Engineering - Electrical, Bachelor of Engineering - Mechanical, Bachelor of Applied Science - Construction Management, Bachelor of Applied Science - Quantity Surveying who has achieved a sound academic record and who is seen as likely to make a significant contribution to the construction industry. One candidate will be nominated from each course and interviewed by the AFCC who will make the final selection.

Amatek Rocla Prize

Awarded to the student in the Faculty of Engineering, either part-time or full-time, who sits for the examination for the first time, and receives the highest mark in the subject 'Management'.

Applied Micro Systems Prize

Awarded to the best first year student of the Bachelor of Applied Science - Surveying course.

The Association of Public Authority Surveyors Prize

Awarded to the Bachelor of Applied Science - Surveying Stage 1 student who achieves the best academic result in the subject 'Land Surveying I'.

The Australian Asphalt Pavement Association (Queensland Branch) Prizes

Awarded to the student in the Bachelor of Engineering - Civil course who obtains the best results in the subjects 'Highway Engineering' and 'Field Trip' or their equivalents.

Awarded to the student in the Associate Diploma in Civil Engineering course who obtains the best results in the subjects 'Materials Specification and Control' and 'Construction Practice I' or equivalents.

* Students must apply to be considered.

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Australian Institute of Cartographers (Queensland Division) Prizes

Awarded to the best final year student of the Associate Diploma in Cartography for his/her performance over the whole course.

Awarded to the best student of the Bachelor of Applied Science - Surveying, Cartography Strand for his/her performance during the year.

The Australian Institute of Engineering Associates (Brisbane Branch) Award Awarded to the outstanding graduate of an Associate Diploma in Engineering.

Australian Road Federation Road Study Award

Awarded to a student enrolled in the Bachelor of Engineering - Civil degree course who prepares the best assignment in the subject 'Transport Engineering I'.

The Australian Institute of Refrigeration, Air Conditioning and Heating (Queensland Division) Prize

Awarded to the student associated with the industry who obtains the best performance in subjects in the School of Mechanical and Manufacturing Engineering dealing with Refrigeration, Air Conditioning or Heating.

Australian Surveying and Land Information Group Prize for Surveys for Government

Awarded to the graduate of the Graduate Diploma in Surveying Practice who has achieved a high level of understanding of the operations of government departments.

Robert S. Brodribb Memorial Prize

Donated from monies held in trust by QUT, on behalf of the Local Government Engineers Association and Mrs R.S. Brodribb, and awarded to the student exhibiting the most outstanding performance in those subjects related to, or qualifying persons for, the issue of a Certificate of Competency as a Local Government Engineer.

* CMPS Prize

Donated by Crooks Michell Peacock Stewart (Qld) and awarded to the student who, on completion of the second year, has the potential to become a useful member of the engineering profession. The prize will be determined with 60% based on weighted grade average and 40% based on a personal interview to assess: interpersonal skills, participation in campus activities, plans for future in the profession.

Cottrell Cameron & Steen Surveys Pty Ltd Prize

Awarded to the student in the Bachelor of Applied Science - Surveying who obtains the best result in the subject 'Photogrammetry II'.

The Course Administrator's Prize for Leadership

Donated by the Surveying Department staff and awarded to the graduate of the Graduate Diploma in Surveying Practice who has exhibited leadership skills in the operation of the student functional committees.

J.H. Curtis Award

Donated by The Institution of Engineers, Australia (Queensland Division), and awarded annually to the Bachelor of Engineering student who submits the best final year project.

Peter W. Dawson & Associates Pty Ltd Prize for Practice Law

Awarded to the graduate of the Graduate Diploma in Surveying Practice who has achieved a high level of proficiency and demonstrated significant potential in practice law.

The Dean's Award for Excellence

Awarded to the top graduand in each undergraduate course in the Faculty of Engineering.

* Students must apply to be considered.



Electric Energy Prizes

Donated jointly by QEC and SEQEB and awarded to:

The Bachelor of Engineering - Electrical student, specialising in Electrical Engineering in the later years of the course, with the best performance in designated subjects relevant to electric energy.

The graduate of the Associate Diploma in Engineering course with the best performance in designated subjects relevant to electric energy.

Energy Control Microelectronics Design Prize

Donated by Energy Control Pty Ltd and awarded to a student who best demonstrates excellence in the use of energy control micro-electronic products. The prize is oriented towards the areas of industrial electronics, automatic control, computer systems and telecommunications engineering.

John Grayson Pike Memorial Prize for Cadastral Surveying

Donated by the Association of Consulting Surveyors and Pike Mirls McKnoulty Pty Ltd and awarded to the graduate of the Graduate Diploma in Surveying Practice who has achieved a high level of proficiency and demonstrated significant potential in cadastral surveying.

* Hardie Pipeline Awards

Donated by James Hardie & Co Ltd and awarded to a student enrolled in the penultimate year in each of the degree and associate diploma courses in Civil Engineering. The award is made on the basis of academic performance in subjects related to water engineering or engineering practice, together with consideration of the student's interests and involvement in engineering practice and activities both within the University and the community.

Heilbronn and Partners Pty Ltd Prizes

Awarded to the student with the highest average result in the subjects 'Land Development Practice I' and 'Land Development Practice II'.

Survey Project Management: Awarded to the graduate of the Graduate Diploma in Surveying Practice who has achieved a high level of proficiency and demonstrated significant potential in survey project management.

Honeywell Prize

Awarded for high academic performance by a Bachelor of Engineering or Associate Diploma in Engineering student in the fields of instrumentation and automatic control.

F.R. Daniel Huston & Associates Prize for Building Control Surveys

Awarded to the graduate of the Graduate Diploma in Surveying Practice who has achieved a high level of proficiency and demonstrated significant potential in building control surveys.

IBM Prize for Excellence

Awarded annually to a student in the Bachelor of Engineering/Bachelor of Applied Science - Electronics and Computing double degree course for excellence in the course.

Institute of Draftsmen Australia Prize

Awarded to a graduate of an Associate Diploma in Engineering who obtains the best average results over any four engineering drawing subjects.

Institute of Radio and Electronics Engineers, Australia Prizes

Awarded to the student who performs best in certain subjects in the final year of the Electronics and Communications Strand in the Bachelor of Engineering - Electrical and Computer Engineering course.

* Students must apply to be considered.

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Awarded to the student who performs best in certain subjects in the final year of the Associate Diploma in Electrical Engineering course.

Institution of Surveyors, Australia (Queensland Division) Centenary Prize

Donated by the Institution of Surveyors, Australia (Queensland Division), and awarded to the student completing second year studies at the Queensland Centre for Surveying and Mapping Studies, who demonstrates a good academic record and a sincere interest in the surveying profession.

Institution of Surveyors, Australia (Queensland Division) S.E. Reilly Prize

Donated by the Institution of Surveyors, Australia (Queensland Division), and awarded to the student completing the final year of an undergraduate degree course who is judged most proficient in practical work as well as academic work, taking into account community spirit as displayed by willingness to take part in activities outside the scope of the formal degree course.

Institution of Surveyors, Australia (Queensland Division) Prize for Professional Practice

Awarded to the graduate of the Graduate Diploma in Surveying Practice who has demonstrated a high level of professionalism and a commitment to working for the furtherance of the profession.

Jasco Pty Ltd Prize

Awarded to the part-time Associate Diploma in Engineering student who gains the best aggregate mark for 'Engineering Drawing I' and 'Engineering Drawing II', and who successfully completes all subjects in Semesters 1 and 2 and enrols in all subjects for Semester 3.

Keilar Fox & McGhie Pty Ltd Prize for Mapping

Awarded to the graduate of the Graduate Diploma in Surveying Practice who has achieved a high level of proficiency and demonstrated significant potential in mapping.

* John Kindler Memorial Prize

Awarded in memory of Mr John Kindler, former Chief Engineer in the Co-ordinator General's Department, to a graduate of the Bachelor of Engineering course for outstanding performance throughout the course. Selection is based not only on academic achievement, but requires an involvement in sport, campus and general community activities, concern for and relation with peers, and a mature approach to his/her potential as a graduate.

Don King-Scott Memorial Prize

Donated by the Queensland Division of the Australian Water and Wastewater Association, and awarded to the graduating student who gains the highest aggregate mark in the three subjects Water Supply and Sewerage, Urban Drainage and Water Wastewater Treatment I in the Graduate Diploma in Municipal Engineering course.

J.A. Liddle Consulting Surveyors Prize for Detail Surveys

Awarded to the graduate of the Graduate Diploma in Surveying Practice who has achieved a high level of proficiency and demonstrated significant potential in detail surveys.

Local Government Engineering Prize

Donated by the Queensland Foundation for Local Government Engineering, and awarded to the graduating Civil Engineering degree student who obtains the best overall performance in the subjects: Civil Engineering Design II, Transport Engineering I, Public Health Engineering II, Construction Management and Economics, and, where appropriate, Design Project and/or electives.

* Students must apply to be considered.

ENGINEERING

Louvre Windows Australia Trading Prize

Awarded to the student who obtains the highest pass in the subject Financial Management for Engineers in the final year of the Bachelor of Engineering - Mechanical course.

Main Roads Department Prizes

These prizes are awarded to officers of the Main Roads Department in attendance at the Queensland University of Technology, with the best performances in the following courses: Bachelor of Engineering - part-time, Associate Diploma in Engineering - cadet draftsperson, Associate Diploma in Engineering - cadet construction or investigation technician, and Bachelor of Engineering - full-time - Main Roads Department scholarship holder.

Peter McAnally Memorial Prize

Donated by the staff of the School of Civil Engineering in memory of their esteemed colleague and lecturer in Geotechnical Engineering, and awarded to the best student in the subject Geotechnical Engineering II.

MIM Holdings Limited Prize

Awarded to the students of the Bachelor of Engineering courses, who undertake a project of mutual benefit to the University and MIM Holdings Limited.

MTIA - F.L. Hudson Memorial Foundation Achievement Award

Awarded to the part-time student enrolled in the Associate Diploma in Mechanical Engineering course who successfully completes all subjects in Semesters 5 and 6 in the same year, and has the best aggregate marks in those subjects which reflect the production engineering content of that year.

Pettigrew Consultants Pty Ltd Prize

Awarded to the full-time student in the Associate Diploma in Mechanical Engineering who obtains the best average percentage in all subjects in the first year of the course.

Pettigrew Prize for Public Health Engineering

Donated by Pettigrew Consultants Pty Ltd and awarded to the student who achieves the best mark in the subject 'Public Health Engineering I'.

Prize for Office Operations

Awarded to the graduate of the Graduate Diploma in Surveying Practice who has achieved a high level of proficiency and demonstrated significant potential in office operations.

QEC Award for Instrumentation and Control

Awarded to an Associate Diploma in Electrical Engineering student for high academic performance in the field of instrumentation and automatic control.

Awarded to a Bachelor of Engineering - Electrical and Computing Engineering student for high academic performance in the field of instrumentation and control.

Queensland Laser and Survey Supplies/Applied Micro Systems Prize for Engineering Surveying

Awarded to the graduate of the Graduate Diploma in Surveying Practice who has achieved a high level of proficiency and demonstrated significant potential in engineering surveying.

RACQ Prize in Highway Engineering

Awarded to the final year graduating full-time or part-time student in the Bachelor of Engineering - Civil course who attains the highest average marks in Highway, Traffic and Transportation subjects, including any related final year project.



A.G. Scott Memorial Prize

Donated by Mr and Mrs Scott from monies held in trust, and awarded annually in memory of Mr A.G. Scott a graduate of the Bachelor of Engineering - Mechanical course, to the student in the Bachelor of Engineering course who demonstrates the greatest gain in innovative ability and competence in mechanical engineering design, or attains the best overall performance in design work.

Survey and Development Services Prize for Innovations and Systems Development

Awarded to the graduate of the Graduate Diploma in Surveying Practice who has demonstrated a capacity to look to the future and who has the potential to provide leadership in innovative technology.

Surveying Staff Cartography Prize

Donated by staff within the QUT Department of Surveying and awarded to the student who completes the Associate Diploma in Cartography with the highest average result in the subjects: Cartography I, Cartography II, Cartography III and Cartography IV.

Surveying Staff Land Studies Prize

Donated by staff within the QUT Department of Surveying and awarded to the student who completes second year with the highest average result in the subjects: Land Studies A, Land Studies B, Land Administration I, Land Administration III and Land Administration IV.

The Surveyor-General's Prize for the Dux of the Course

Awarded to the graduate achieving the highest aggregate marks in the Graduate Diploma in Surveying Practice.

Trousdell & Associates Prize for Survey Computing

Awarded to the graduate of the Graduate Diploma in Surveying Practice who has achieved a high level of proficiency and demonstrated significant potential in survey computing.

VIPAC Prize

Awarded annually to the best student in the subject 'Failure Analysis'.

Wild Leitz (Australia) Pty Ltd Prizes

Awarded to the student of the Associate Diploma in Cartography course who obtains the highest average mark in the subjects 'Introductory Cartography' and 'Survey Drafting'.

Awarded to the top student in the subject 'Data Presentation I' of the Bachelor of Applied Science - Surveying course.

Carl Zeiss Pty Ltd Prize

Awarded to the student in the Associate Diploma in Cartography who obtains the best result in the subjects: Photogrammetry I, Photogrammetry II and Photogrammetry III.



FACULTY OF HEALTH SCIENCE



FACULTY OF HEALTH SCIENCE

Courses Offered

- HSN184 Master of Applied Science by Research & Thesis (see page 16)
- HSN257 Master of Health Science with strands in Medical Laboratory Science, and Nursing
- *MSN220 Master of Applied Science Medical Laboratory Science
- MSM245 Graduate Diploma in Biotechnology
- NSM253 Graduate Diploma in Advanced Nursing Practice
- PNM175 Graduate Diploma in Nutrition and Dietetics
- PNM240 Graduate Diploma in Occupational Health and Safety
- MSJ274 Bachelor of Applied Science (Honours)
- MSJ126 Bachelor of Applied Science Medical Laboratory Science
- NSJ231 Bachelor of Applied Science Nursing
- OPJ202 Bachelor of Applied Science Optometry
- PNJ229 Bachelor of Applied Science Environmental Health
- PNJ270 Bachelor of Applied Science Podiatry
- ***NSK198** Diploma of Applied Science Nursing Education
- *NSK207 Diploma of Applied Science Community Nursing
- NSK208 Diploma of Applied Science Nursing
- *NSK215 Diploma of Applied Science Nursing Management
- ***NSK216** Diploma of Applied Science Clinical Nursing Studies
- *PNK172 Diploma of Applied Science Podiatry
- MSL182 Associate Diploma in Clinical Laboratory Techniques

The Faculty

The Faculty of Health Science offers courses at all levels for students seeking professional qualifications in the Health Sciences. The Faculty comprises a School of Nursing, and Departments of Medical Laboratory Science, Optometry, and Public Health and Nutrition, and operates Optometry, Podiatry, Sports Medicine and Weight Control Clinics as public teaching clinics.

*being phased out. No intake in 1990.



The Faculty of Health Science has the objective of increasing its research and consultancy activity to ensure that the majority of academic staff in each School and Department has an active research involvement.

The major research activities of the Faculty are conducted through the Centre of Molecular Biotechnology in the Department of Medical Laboratory Science, and the Optometry Department's Centre for Eye Research. Specific research is also undertaken in the areas of medical laboratory science, nursing, nutrition, environmental health, podiatry, anatomy and physiology.

The Analytical Electron Microscope Facility provides significant consultancy activity for the Faculty. This joint facility in collaboration with Griffith University has led the State in the application of X-ray analysis to tap the analytical potential of scanning and transmission electron microscopy.

Course Structures

HSN257 Master of Health Science

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

Note: Students have the option of completing the course in one year by undertaking the project in the summer vacation period.

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinators: Medical Laboratory Science Strand - Miss Pam Stallybrass; Nursing Strand - Ms Karen Stolz.

Entry Requirements

Medical Laboratory Science Strand

Nursing Strand

NORMAL ENTRY

Applicants shall hold a Bachelor of Applied Science (or equivalent) in the appropriate discipline for which they are seeking admission and shall normally have had at least one year of appropriate work experience in the discipline for which they are seeking admission.

Applicants may be required to attend an interview with the Head of School/Department and/or Course Co-ordinator to establish suitability for entrance into the course.

For the Nursing Strand only, applicants must hold a qualification in nursing acceptable for registration by the Nurses Registration Board of Queensland.

SPECIAL ENTRY

Applicants who do not hold the specific tertiary qualification required of normal entrants may be admitted upon successful completion of a qualifying program prescribed by the Head of School/Department.

MEDICAL LABORATORY SCIENCE STRAND

There will be no intake into the first year in 1990; however, some subjects will be offered for students transferring from the Master of Applied Science - Medical Laboratory Science.



There will be an intake into the part-time course in 1991 and it is expected that the full-time program will be offered in 1992.

Students should consult the Course Co-ordinator regarding their programs.

Special Course Requirement

Students must select two interdisciplinary specialisation electives in Semesters 5 and 6.

Part-Time	Course Structure		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)			
MNN601 LWS001	Contemporary Health Care Issues Medicine & the Law		12 12	3 3
Semester 2	(Spring)			
MSN102 MSN110	Cellular Basis of Disease Molecular Basis of Disease		12 12	3 3
Semester 3	(Autumn)			
MSN150 MNN602	Epidemiology & Research Strategi Health Planning, Management &	es	12	3
	Evaluation		12	3
Semester 4	(Spring)			
MSN401 MSN306	Advances in Medical Laboratory S Pathophysiology	cience	12 12	3
	1 5 05		1.5	5
Semester 5 MSN510	Clinical Biochemistry I)		
MSN510 MSN511	Haematology I)) select		
MSN512 MSN515	Histopathology I) one	12	3
MSN530	Microbiology I Dissertation I)	12	3
Semester 6	(Spring)			
MSN610	Clinical Biochemistry II)		
MSN611 MSN612	Haematology II Histopathology II) select) one	12	3
MSN615 MSN531	Microbiology II Dissertation II)	12	3

NURSING STRAND

Special Course Requirement

Students must select one clinical specialisation and one advanced nursing specialisation.

Full-Time	Course Structure		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)			
MNN601	Contemporary Health Care Issues		12	3
MSN150	Epidemiology & Research Strategi	es	12	3 3
MNN602	Health Planning, Management & Evaluation		12	3
NSN401	Strategies for Nursing Research		12	3
Semester 2	(Spring)			
NSN105 NSN108 NSN111	Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health)) select) one	12	3

	Nursing I)		
NSN106	Medical/Surgical Nursing II)		
NSN109	Primary Health Care Nursing II) select	_	
NSN112	Psychiatric/Mental Health) one	12	3
	Nursing II)		
NSN107	Medical/Surgical Nursing III)		
NSN110	Primary Health Care Nursing III) select		
NSN113	Psychiatric/Mental Health) one	12	3
	Nursing III)		
NSN301	Advanced Nursing Education I	<u>}</u>		
NSN304	Advanced Nursing Management I) select	10	2
NSN307	Advanced Nursing Clinical I) one	12	3
Semester 3	(Autumn)			
		\ \		
NSN302	Advanced Nursing Education II)) select		
NSN305	Advanced Nursing Management II) one	12	3
NSN308 NSN303	Advanced Nursing Clinical II Advanced Nursing Education III		12	5
ACN813	Accounting Principles) select		
ACHOID	(Management III)) one	12	3
NSN309	Advanced Nursing Clinical III		12	5
NSN403	Dissertation I	/	12	3
NSN404	Dissertation II		12	3
11011101				
Part-Time	Course Structure		Credit	Contact
			Points	Hrs/Wk
Semester 1	(Autumn)			
MNN601	Contemporary Health Care Issues		12	3
NSN401	Strategies for Nursing Research		12	3
Someton 7	5			
Semester 2	(Spring)	、 、		
NSN105	(Spring) Medical/Surgical Nursing I)		
NSN105 NSN108	(Spring) Medical/Surgical Nursing I Primary Health Care Nursing I)) select	13	2
NSN105	(Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health)) select) one	12	3
NSN105 NSN108 NSN111	(Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I	(12	3
NSN105 NSN108 NSN111 NSN106	(Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II) one))	12	3
NSN105 NSN108 NSN111 NSN106 NSN109	(Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II) one)) select		
NSN105 NSN108 NSN111 NSN106	(Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health) one))	12 12	3 3
NSN105 NSN108 NSN111 NSN106 NSN109	(Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II) one)) select		
NSN105 NSN108 NSN111 NSN106 NSN109 NSN112	(Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health) one)) select		
NSN105 NSN108 NSN111 NSN106 NSN109 NSN112	G (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II B (Autumn)) one)) select) one)		3
NSN105 NSN108 NSN111 NSN106 NSN109 NSN112 Semester 3	G (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II) one)) select) one)	12	3
NSN105 NSN108 NSN111 NSN106 NSN109 NSN112 Semester 3 MSN150 MNN602	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II (Autumn) Epidemiology & Research Strategi Health Planning, Management & F) one)) select) one)	12	3
NSN105 NSN108 NSN111 NSN106 NSN109 NSN112 Semester 3 MSN150	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II (Autumn) Epidemiology & Research Strategi Health Planning, Management & F (Spring)) one)) select) one)	12	3
NSN105 NSN108 NSN111 NSN106 NSN109 NSN112 Semester 3 MSN150 MNN602	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Psychiatric/Mental Health Nursing II S (Autumn) Epidemiology & Research Strategi Health Planning, Management & F (Spring) Medical/Surgical Nursing II) one)) select) one) ess Evaluation	12	3
NSN105 NSN108 NSN111 NSN106 NSN109 NSN112 Semester 3 MSN150 MNN602 Semester 4 NSN107 NSN110	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II (Autumn) Epidemiology & Research Strategi Health Planning, Management & F (Spring) Medical/Surgical Nursing III Primary Health Care Nursing III) one)) select) one) ess Evaluation) select	12 12 12	3 3 3
NSN105 NSN108 NSN111 NSN106 NSN109 NSN112 Semester 3 MSN150 MNN602 Semester 4 NSN107	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II (Autumn) Epidemiology & Research Strategi Health Planning, Management & F (Spring) Medical/Surgical Nursing III Primary Health Care Nursing III Psychiatric/Mental Health) one)) select) one) ess Evaluation	12	3
NSN105 NSN108 NSN111 NSN106 NSN109 NSN112 Semester 3 MSN150 MNN602 Semester 4 NSN107 NSN110 NSN113	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II (Autumn) Epidemiology & Research Strategi Health Planning, Management & F (Spring) Medical/Surgical Nursing III Primary Health Care Nursing III Psychiatric/Mental Health Nursing III) one)) select) one) ess Evaluation) select	12 12 12	3 3 3
NSN105 NSN108 NSN111 NSN106 NSN109 NSN109 NSN112 Semester 3 MSN150 MNN602 Semester 4 NSN107 NSN100 NSN110 NSN113 NSN301	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II (Autumn) Epidemiology & Research Strategi Health Planning, Management & E (Spring) Medical/Surgical Nursing III Primary Health Care Nursing III Psychiatric/Mental Health Nursing III Advanced Nursing Education I) one)) select) one) es Evaluation) select) one)	12 12 12	3 3 3
NSN105 NSN108 NSN111 NSN106 NSN109 NSN112 Semester 3 MSN150 MNN602 Semester 4 NSN107 NSN110 NSN113 NSN301 NSN304	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II (Autumn) Epidemiology & Research Strategi Health Planning, Management & F (Spring) Medical/Surgical Nursing III Primary Health Care Nursing III Psychiatric/Mental Health Nursing III Advanced Nursing Education I Advanced Nursing Management I) one) select) one) es Evaluation) select) one)) select) one	12 12 12	3 3 3
NSN105 NSN108 NSN111 NSN106 NSN109 NSN109 NSN112 Semester 3 MSN150 MNN602 Semester 4 NSN107 NSN100 NSN110 NSN113 NSN301	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II (Autumn) Epidemiology & Research Strategi Health Planning, Management & E (Spring) Medical/Surgical Nursing III Primary Health Care Nursing III Psychiatric/Mental Health Nursing III Advanced Nursing Education I) one)) select) one) es Evaluation) select) one)	12 12 12	3 3 3
NSN105 NSN108 NSN101 NSN106 NSN109 NSN112 Semester 3 MSN150 MNN602 Semester 4 NSN107 NSN110 NSN110 NSN113 NSN301 NSN301 NSN304 NSN307	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II (Autumn) Epidemiology & Research Strategi Health Planning, Management & F (Spring) Medical/Surgical Nursing III Primary Health Care Nursing III Psychiatric/Mental Health Nursing III Advanced Nursing Education I Advanced Nursing Management I Advanced Nursing Clinical I) one) select) one) es Evaluation) select) one)) select) one	12 12 12	3 3 3
NSN105 NSN108 NSN108 NSN111 NSN106 NSN109 NSN112 Semester 3 MSN150 MNN602 Semester 4 NSN107 NSN110 NSN110 NSN113 NSN301 NSN301 NSN304 NSN307 Semester 5	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II (Autumn) Epidemiology & Research Strategi Health Planning, Management & F (Spring) Medical/Surgical Nursing III Psychiatric/Mental Health Nursing III Advanced Nursing Education I Advanced Nursing Management I Advanced Nursing Clinical I (Autumn)) one) select) one) es Evaluation) select) one)) select) one	12 12 12	3 3 3
NSN105 NSN108 NSN108 NSN111 NSN106 NSN109 NSN112 Semester 3 MSN150 MNN602 Semester 4 NSN107 NSN110 NSN110 NSN110 NSN113 NSN301 NSN304 NSN307 Semester 5 NSN302	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II (Autumn) Epidemiology & Research Strategi Health Planning, Management & F (Spring) Medical/Surgical Nursing III Primary Health Care Nursing III Psychiatric/Mental Health Nursing III Advanced Nursing Education I Advanced Nursing Clinical I (Autumn)) one)) select) one) ess Evaluation)) select) one)) select) one)) select) one	12 12 12	3 3 3
NSN105 NSN108 NSN108 NSN111 NSN106 NSN109 NSN112 Semester 3 MSN150 MNN602 Semester 4 NSN107 NSN110 NSN110 NSN113 NSN301 NSN301 NSN304 NSN307 Semester 5 NSN302 NSN305	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II (Autumn) Epidemiology & Research Strategi Health Planning, Management & F (Spring) Medical/Surgical Nursing III Primary Health Care Nursing III Psychiatric/Mental Health Nursing III Advanced Nursing Education I Advanced Nursing Clinical I (Autumn) Advanced Nursing Education II Advanced Nursing Management II) one) select) one) select) select) one) select) one) select) one	12 12 12 12	3 3 3 3
NSN105 NSN108 NSN108 NSN111 NSN106 NSN109 NSN112 Semester 3 MSN150 MNN602 Semester 4 NSN107 NSN110 NSN110 NSN110 NSN110 NSN111 NSN301 NSN301 NSN304 NSN307 Semester 5 NSN302 NSN305 NSN308	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II (Autumn) Epidemiology & Research Strategi Health Planning, Management & F (Spring) Medical/Surgical Nursing III Primary Health Care Nursing III Psychiatric/Mental Health Nursing III Advanced Nursing Education I Advanced Nursing Clinical I (Autumn)) one)) select) one) ess Evaluation)) select) one)) select) one)) select) one	12 12 12	3 3 3
NSN105 NSN108 NSN108 NSN111 NSN106 NSN109 NSN112 Semester 3 MSN150 MNN602 Semester 4 NSN107 NSN110 NSN110 NSN113 NSN301 NSN301 NSN304 NSN307 Semester 5 NSN302 NSN305	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II (Autumn) Epidemiology & Research Strategi Health Planning, Management & F (Spring) Medical/Surgical Nursing III Primary Health Care Nursing III Psychiatric/Mental Health Nursing III Advanced Nursing Education I Advanced Nursing Clinical I (Autumn) Advanced Nursing Education II Advanced Nursing Education II Advanced Nursing Education II Advanced Nursing Clinical I) one) select) one) select) select) one) select) one) select) one	12 12 12 12 12	3 3 3 3 3 3
NSN105 NSN108 NSN108 NSN111 NSN106 NSN109 NSN112 Semester 3 MSN150 MNN602 Semester 4 NSN107 NSN110 NSN110 NSN110 NSN110 NSN111 NSN301 NSN301 NSN304 NSN307 Semester 5 NSN302 NSN305 NSN308	 (Spring) Medical/Surgical Nursing I Primary Health Care Nursing I Psychiatric/Mental Health Nursing I Medical/Surgical Nursing II Primary Health Care Nursing II Psychiatric/Mental Health Nursing II (Autumn) Epidemiology & Research Strategi Health Planning, Management & F (Spring) Medical/Surgical Nursing III Primary Health Care Nursing III Primary Health Care Nursing III Psychiatric/Mental Health Nursing III Advanced Nursing Education I Advanced Nursing Clinical I (Autumn) Advanced Nursing Education II Advanced Nursing Management II Advanced Nursing Clinical II Dissertation I) one) select) one) select) select) one) select) one) select) one	12 12 12 12 12	3 3 3 3 3 3

NSN303 Advanced Nursing Education III)

ACN813	Accounting Principles) select		
	(Management III)) one	12	3
NSN307	Advanced Nursing Clinical III)		
NSN404	Dissertation II		12	3

Clinical Specialisations

Medical/Surgical Nursing Primary Health Care Psychiatric/Mental Health Nursing (Students must select one of these clinical specialisations)

Advanced Nursing Specialisations

Advanced Nursing Education Advanced Nursing Management Advanced Nursing Clinical (Similar states must select one of these advanced nursing specialisations).

MSN220 Master of Applied Science – Medical Laboratory Science

Course Duration: 8 semesters part-time

Course Co-ordinator: Miss Pam Stallybrass

This course is being phased out. Where possible, students will be transferred to the Master of Health Science - Medical Laboratory Science Strand. Students continuing their enrolment in the Master of Applied Science and those wishing to recover units should consult the 1989 School of *Health Science Handbook* for course details and consult the Course Co-ordinator for advice on their programs.

MSM245 Graduate Diploma in Biotechnology

Course Duration: 2 semesters full-time or 4 semesters part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Dr James Dale

Entry Requirements

NORMAL ENTRY

To be eligible for entry to the Graduate Diploma in Biotechnology an applicant must have completed an appropriate Degree or Diploma in a relevant science area.

SPECIAL ENTRY

Applicants who do not hold the tertiary qualifications required for normal entry may be eligible for admission if they have completed a Diploma or Degree in another appropriate non-science area as determined by the Head of Department, and are employed in the biotechnology area.

All special entry applicants will be interviewed by a selection panel which will determine eligibility and recommend, where appropriate, bridging subjects to be completed before entry into the course.



Full-Time Course Structure		Credit Points	Contact Hrs/Wk			
Semester 1 (Autumn)						
MSB530 MSP145 MSB521 MSP127	Introductory Molecular Biology Project Biochemical Separations Topics in Biotechnology I Elective	10 16 10 4 8	5 3 4 1 4			
Semester 2	(Spring)					
MSB630 MSP126 CHP151 MSP145 MSP128	Genetic Engineering Advanced Genetic Engineering II Biochemical Engineering II Project Topics in Biotechnology II	10 10 10 16 2	5 5 3 1			
Part-Time	Course Structure	Credit Points	Contact Hrs/Wk			
Semester 1	(Autumn)					
MSB530 MSB521	Introductory Molecular Biology Biochemical Separations	10 10	5 4			
Semester 2	(Spring)					
MSB630	Genetic Engineering Elective	10 8	5 4			
Semester 3	(Autumn)					
MSP126 MSP145 MSP127	Advanced Genetic Engineering II Project Topics in Biotechnology I	10 16 4	5 3 1			
Semester 4	(Spring)					
CHP151 MSP145 MSP128	Biochemical Engineering II Project Topics in Biotechnology II	10 16 2	5 3 1			

Note

MSP145 Project is offered as a full year subject.

The elective must be chosen from either third year subjects offered by the Department of Medical Laboratory Science or subjects deemed to be relevant by the Head of Department.

NSM253 Graduate Diploma In Advanced Nursing Practice

170

Course Duration: 4 semesters part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Ms Anne Dewar

Entry Requirements

NORMAL ENTRY

Applicants for admission to the course shall hold a nursing qualification acceptable for registration by the Nurses Registration Board of Queensland; shall hold a degree or diploma in nursing; and shall normally have at least one year of appropriate post-registration clinical experience.

SPECIAL ENTRY

An applicant who does not meet the requirements for normal entry may present documentary evidence of qualifications, experience and other relevant information for special consideration by the Head of School. Such an applicant may be required to undertake appropriate bridging units to be determined at the discretion of the Head of School. The units would normally be selected from areas of study in the Bachelor of Applied Science - Nursing course.

Special Course Requirements

Students will be required to negotiate with appropriate health organisations for additional clinical practice placement outside the formal contact hours in order to meet the course requirements.

Each student must select one area of specialisation and complete the three subjects in that area of study. Three areas of specialisation will be offered in 1990: medical/surgical nursing, primary health care nursing and psychiatric/mental health nursing.

The elective studies consist of six half semester subjects and one half semester of independent study. Students are required to select two units of study from the list of electives.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk		
Semester 1 (Autumn)					
MNN601 NSN102	Contemporary Health Care Issues Concepts for Advanced Clinical Nursing	12 12	3 3		
Semester 2	(Spring)				
NSN104 NSN105	Professional Issues in Nursing Medical/Surgical Nursing I	12 12	3 3		
NSN108	OR Primary Health Care Nursing I OR	12	3		
NSN111	Psychiatric/Mental Health Nursing I	12	3		
Semester 3 (Autumn)					
NSN103	Research Methods in Nursing	12	3 3		
NSN106	Medical/Surgical Nursing II OR	12	3		
NSN109	Primary Health Care Nursing II OR	12	3		
NSN112	Psychiatric/Mental Health Nursing II	12	3		
Semester 4 (Spring)					
NSN107	Medical/Surgical Nursing III OR	12	3		
NSN110	Primary Health Care Nursing III OR	12	3		
NSN113	Psychiatric/Mental Health Nursing III Elective Subject(s)	12 12	3 3		



Elective Subjects

Students will select two 6 credit point subjects or one 12 credit point subject.

NSN201 NSN202	Grief & Bereavement Nursing & Health Education Practice	6 6	1.5 1.5
NSN203	Human Sexuality & Health	6	1.5
NSN204	Pain: A Nursing Focus	6	1.5
NSN205	Independent Study	6	1.5
PNN101	Environmental Health	6	1.5
PNN102	Nutrition & Lifestyle	6	1.5
PNP115	Occupational Health & Safety		
	Administration I	12	3
PNP116	Human Factors	12	3
PHP250	Occupational Hygiene	12	3

PNM175 Graduate Diploma In Nutrition and Dietetics

Course Duration: 3 semesters full-time

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mrs Sandra Capra

Entry Requirements

NORMAL ENTRY

To be eligible for registration in the course the applicant must have completed an acceptable tertiary course at professional level which includes physiology and biochemistry, one of which has been studied successfully at third year level.

SPECIAL ENTRY

Applicants not completely satisfying the subject requirements may obtain registration upon completion of bridging courses prescribed by the Head of Department.

Graduate Standing

Where an equivalent course of study or examination cannot be readily established, an applicant, at the discretion of the Dean of Faculty, may be permitted to undertake a qualifying examination, satisfactory completion of which will entitle such person to the status of Graduate or Diplomate for the purpose of admission.

Note

Applicants should contact the Head, Department of Public Health and Nutrition by letter/personal interview when lodging the application for admission.

Special Course Requirements

In Semesters 1 and 2 all subjects are of 13 weeks duration, except for PNP124 Introduction to Dietetics Practice I and PNP125 Introduction to Dietetics Practice II which each involve one week (40 hours) of hospital practice during the relevant semester.

Before entering the third semester of study, students shall have completed all units of the first and second semesters.

Field trips as detailed in Outline of Subjects have an attendance requirement and shall be assessed.



Full-Time Course Structure		Credi Points	
Semester 1	(Autumn)		
PNP143 NSP171 CMB300 MSP152 MAP256 PNP111 PNP104 PNP124	Foundations of Nutrition Principles of Education Sociology for Health Professionals Food Microbiology Statistics Food Studies I Applied Nutrition I	12 4 6 4 4 4	6 2 3 2 2 2 2
PNP124 PNP151	Introduction to Dietetics Practice I Project I	4 4	1 wk (40 hrs) 1
Semester 2	· · ·	_	_
PNP137 MNP054 PNP120 PNP142 PNP112 PNP108 PNP125 PNP251	Catering Studies Management & Marketing Therapeutic Dietetics Medicine Food Studies II Applied Nutrition II Introduction to Dietetics Practice II Project II	7 4 10 6 6 6 5	5 3 7 1.5 3 3 1 wk (40 hrs) 1
Semester 3	(Autumn)		
PNP132 PNP122 PNP123 PNP301	Practice in Large Scale Feeding Practice in Therapeutic Dietetics Practice in Community Nutrition Project III	10 31 7	4 wks 11 wks 3 wks 3

PNM240 Graduate Diploma in Occupational Health and Safety

Course Duration: 4 semesters part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr John Waldock

Entry Requirements

NORMAL ENTRY

The normal entry requirement for the course is a Bachelors Degree or equivalent in an appropriate discipline from a recognised tertiary institution. There will be no assumption of prior knowledge in occupational health and safety.

SPECIAL ENTRY

Special entry will be considered for a person without a degree, in view of experience and responsibility in occupational health and safety. As the course is academically demanding and high standards of performance are expected, such candidates will require either an extensive background in the discipline or other suitable tertiary qualifications and appropriate experience to be offered a place.

In some instances, preliminary bridging studies in the physical sciences may be required.

Additional Requirements

All applications for entry will be judged on their individual merit, but considered against a background of the course quota and the benefit of having a diverse class cohort.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk	
Semester 1	(Autumn)			
PNP115	Occupational Health & Safety	10	2	
PNP116	Administration I Human Factors	12 12	3 3	
Semester 2	(Spring)			
PNP215	Occupational Health & Safety Administration II	12	3	
MEP201	Safety Technology & Practice I	12	3 3	
Semester 3	(Autumn)			
MEP301 PHP250	Safety Technology & Practice II Occupational Hygiene	12 12	3 3	
Semester 4 (Spring)				
PNP415 PNP416	Occupational Health Occupational Health & Safety Project	12 12	3 *	

MSJ274 Bachelor of Applied Science (Honours) with Strand in Biomedical Science

Course Duration: 2 semesters full-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk		
Semester 1	(Autumn)				
MSP125	Project	5			
MSP123	Readings in Biotechnology I	25	1		
MSP121	Research Strategies I	8	3		
And 10 Cre	edit Points from one of the followir	ıg:			
MSB530	Introductory Molecular Biology	10	5		
MSP120	Advanced Genetic Engineering	10	6		
MSB521	Biochemical Separations	10	4 5		
MSP104	Analytical Electron Microscopy	10	5		
or another subject approved by Head of Department.					
Semester 2	l (Spring)				
MSP125	Project	5			
MSP124	Readings in Biotechnology II	25	1		
MSP122	Research Strategies II	8	3		

* No formal classes will be offered; nominated staff will provide supervision.



And 10 Cr	edit Points from one of the following	g:	
MSP105	Molecular Diagnosis of Disease	10	4
MSB630	Genetic Engineering	10	5
MSB621	Analytical Biochemistry	10	4
CHP150	Biochemical Engineering	10	6
or another	subject approved by Hand of Dapart	ment	

or another subject approved by Head of Department.

MSJ126 Bachelor of Applied Science - Medical Laboratory Science

Course Duration: 6 semesters full-time or 12 semesters part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mrs Ann Pope

Special Course Requirement

For commencing students in the part-time program, subjects in Semesters 1 and 2 will not normally be programmed in the evening. Students will be required to attend much of their program during the day.

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
CHB142 PHB150 PNB131 MAB150 MSB101 CSB259	Chemistry I Physics IH Anatomy I Quantitative Techniques Microbiology I Laboratory Computing I	12 12 6 6 6 6	6 3 2 3 2
Semester 2	(Spring)		
CHB242 PHB250 PNB132 MAB252 MSB145 PNB165	Chemistry II Physics IIH Anatomy II Statistics Laboratory Technology II Physiology II	12 10 6 4 8 8	6 4 3 2 3 4
Semester 3	(Autumn)		
CHB382 MSB405 MSB445 PNB465 MAB259 MSB415 MSB450	Chemistry III Laboratory Computing III Laboratory Technology III Physiology III Biomedical Statistics III Biochemistry III Microbiology III	4 8 8 6 10 6	2 3 4 2 5 3
Semester 4	(Spring)		
MSB416 MSB454 MSB412 MSB426 MSB492 MSB430	Biochemistry IV Microbiology IV Immunology IV Haematology IV Histopathology IV Disease Processes IV	10 8 8 8 8 8 4	5 4 4 4 4 2



G			
Semester 5	(Autumn)		
MSB718	Clinical Biochemistry V	8	4
MSB755	Microbiology V	16	7
MSB712	Immunology V	8	4
MSB726	Haematology V	8	4
MSB792	Histopathology V	8	4
Semester 6	(Spring)		
MSB719	Clinical Biochemistry VI	8	4
MSB756	Clinical Bacteriology VI	16	7
MSB713	Immunohaematology VI	8	4
MSB727	Haematology VI	8	4
MSB793	Histopathology VI	⁸	4
	1	-	
Part-Time	Course Structure	Credit	Contact
	000000000000000000000000000000000000000	Points	Hrs/Wk
		r onno	
Semester 1	(Autumn)		
CHB142	Chemistry I	12	6
MAB150	Quantitative Techniques	6	Š
PNB131	Anatomy I	6	23
FINDIDI	Anatomy 1	U	5
Semester 2	(Spring)		
CHB242		12	6
	Chemistry II Statistics	4	2
MAB252	Statistics	6	3
PNB132	Anatomy II	0	2
Semester 3	(Autump)		
		12	(
PHB150	Physics IH	12	6
MSB101	Microbiology I	6	3 2
MAB259	Biomedical Statistics III	6	Z
Semester 4	(Spring)		
		10	
PHB250	Physics IIH	10	4
MSB145	Laboratory Technology II	8	4 3 2
CSB259	Laboratory Computing I	6	2
Semester 5	(Autumn)		
		0	4
PNB165	Physiology II	8	4
CHB382	Chemistry III	4	2 3
MSB445	Laboratory Technology III	8	3
MSB405	Laboratory Computing III	8	3
Semester 6	(Spring)		
		IÔ	c
MSB415	Biochemistry III	10	5
PNB465	Physiology III	8	4
MSB430	Disease Processes IV	4	2
Semester 7	(Autumn)		
	•	10	-
MSB416	Biochemistry IV	10	5 3
MSB450	Microbiology III	6	3 4
MSB454	Microbiology IV	8	4
Semester 8	(Spring)		
		0	.1
MSB412	Immunology IV	8	4
MSB492	Histopathology IV	8	4
MSB426	Haematology IV	8	4
Semester 9	(Autumn)		
	. ,	0	
MSB718	Clinical Biochemistry V	8	4
MSB726	Haematology V	8	4



MSB792	Histopathology V	8	4	
Semester 1 MSB719 MSB727	0 (Spring) Clinical Biochemistry VI Haematology VI	8 8	4 4	
MSB793	Histopathology VI	8	4	
Semester 1	1 (Autumn)			
MSB756 MSB712	Clinical Bacteriology VI Immunology V	16 8	7 4	
Semester 12 (Spring)				
MSB755 MSB713	Microbiology V Immunohaematology VI	16 8	7 4	

NSJ231 Bachelor of Applied Science - Nursing

Course Duration: 4 semesters full-time or 8 semesters part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Ms Karen Stolz

Entry Requirements

Applicants must meet the following nursing and academic requirements.

NURSING QUALIFICATIONS AND EXPERIENCE

Applicants must hold a qualification in nursing acceptable for registration by the Nurses' Registration Board of Queensland, and have completed at least one year's experience as a registered nurse in an approved area of nursing practice.

ACADEMIC QUALIFICATIONS AND COURSE PREREQUISITES

- (a) Applicants who have completed secondary school in Queensland and who have been awarded a Senior Certificate must have a minimum TE 810 with a minimum grade of 16 points or sound achievement in English.
- (b) Applicants who completed secondary school in Queensland prior to the introduction of TE scores or who have completed External Senior Examinations must have a minimum notional selection score (NSS) of 810 and a minimum grade of 4 points or sound achievement in English. Such applicants should refer to Table 1 of the Tables of Entry Requirements in the *Admission Procedures Booklet* to determine their NSS.
- (c)Applicants who have completed secondary schooling outside Queensland must have reached an equivalent standard and met the other criteria listed in (a) or (b) above.
- (d) Applicants who have not completed secondary school or failed to reach the standard indicated above may be deemed to be eligible if they satisfy the Head of School of Nursing that they have completed a course of study that is considered equivalent to the requirements outlined in (a) or (b) above.

Recommended Subjects

Applicants should have satisfactorily completed an appropriate mathematics subject at upper secondary level. For example, ordinary or advanced mathematics at Year 10; mathematics 1, mathematics 2 or 4 units of non sequential mathematics at Year 12 and an appropriate science subject at upper secondary level. For example, science A, science

B or science at Year 10; biology, chemistry, physics, zoology or earth science at Year 12.

Applicants who have not completed appropriate science or mathematics subjects are directed to CN849 course in Bridging Studies for Nurses at TAFE.

Advanced Standing

Advanced Standing of one year will be granted to graduates of the following courses conducted at Queensland University of Technology:

Diploma of Applied Science - Nursing; and

□ post-basic Diploma of Applied Science courses, since (and including) 1981.

Bridging studies may be necessary for those applicants from post-basic courses who have not undertaken the elective subjects Nursing Research and Physiology.

Where an equivalent course of study can be established, an applicant will be granted one year's Advanced Standing.

Where an equivalent course of study cannot be readily established, an applicant at the discretion of the Head of School may be permitted to undertake a challenge examination. Satisfactory completion of this examination will entitle the applicant to one year's Advanced Standing.

Special Course Requirements

Students who enter the full-time course with advanced standing commence their program at Semester 3.

Students who enter the part-time course with advanced standing commence their program at Semester 5.

The subjects NSB112 Clinical Practice I and NSB212 Clinical Practice II are undertaken as one week of continuous practice after the relevant semester.

Electives - students who wish to select an elective other than either of the two subjects offered may do so from courses offered outside the School of Nursing Studies provided such subject is considered appropriate by the Head of School.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
MNB250	Developmental Psychology	9	3
CMB300	Sociology for Health Professionals	6	3
PNB115	Human Physiology I	12	3 3 3 3
NSB120	Nursing in Social Systems I	9	
NSB110	Foundations of Nursing Practice I	12	4
Semester 2	(Spring)		
PNB116	Human Physiology II	6	2
NSB130	Professional Aspects of Nursing I	12	2 4 7 2
NSB111	Foundations of Nursing Practice II	18	7
MSB150	Microbiology	6	2
AFTER SEM NSB112 Clir	1ESTER nical Practice I 💥	6	1 wk (40 hrs)
Semester 3	(Autumn)		
NSB220	Nursing in Social Systems II	9	3
NSB210	Theories of Nursing I	9	3 3



NSB240	Nursing Practice I Elective OR	18	8
NSB250 NSB252	Psychosocial Adaptation Pathophysiology	6 6	2 2
AFTER SEM NSB212		6 I.v	wk (40 hrs)
Semester 4	(Spring)		
ISB263	Introduction to Computers &		
130205	Information Systems	6	2
MAB156	Statistics	6	2 2 4 3
NSB230	Professional Aspects of Nursing II	12	4
NSB211	Theories of Nursing II	9	
NSB241	Nursing Practice II	15	6
Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
MNB250		9	3
PNB115	Developmental Psychology Human Physiology I	12	3 3 3
NSB120	Nursing in Social Systems I	15	3
Somester 2	(Spring)		
Semester 2		12	4
NSB130	Professional Aspects of Nursing I	12	4
PNB116 MSB150	Human Physiology II Microbiology	6 6	2 2
		Ũ	2
Semester 3	. ,		
CMB300	Sociology for Health Professionals	6	3
NSB110	Foundations of Nursing Practice I	12	4
Semester 4	(Spring)		
NSB111	Foundations of Nursing Practice II	18	7
AFTER SEM	IESTER		
NSB112	Clinical Practice I	6 I.v	wk (40 hrs)
Semester 5	(Autumn)		
NSB220	Nursing in Social Systems II	9	3
NSB210	Theories of Nursing I	9	3
	Elective		
NSB250	Psychosocial Adaption	6	2
100225	OR		0
NSB252	Pathophysiology	6	2
Semester 6	(Spring)		
	Brofassional Aspects of Nussing II	12	4

Professional Aspects of Nursing II

Introduction to Computers and

Information Systems

Nursing Practice I

Clinical Practice II

Theories of Nursing II

Nursing Practice II

Statistics

Semester 7 (Autumn)

AFTER SEMESTER

Semester 8 (Spring)

NSB230

MAB156

NSB240

NSB212

NSB211

NSB241

ISB263



8

12

6

6

18

6

9

15

4

2 2

8

3 6

1 wk (40 hrs)

OPJ202 Bachelor Of Applied Science - Optometry

Course Duration: 8 semesters full-time

Total Credit Points: 384

Standard Credit Points/Full-time Semester: 48

Course Co-ordinator: Mr Peter Swann

Special Course Requirements

The degree may be awarded with Honours. First Class Honours, Second Class Honours Division A and Second Class Honours Division B may be awarded. Candidates for the degree with Honours must fulfil the requirements for the pass degree and achieve such standard of proficiency in all the subjects of the course as may from time to time be determined by the Academic Board and approved by the Academic Committee.

Some items of ophthalmic equipment are required by students for clinical use from the beginning of the third year of the course. Academic staff will provide advice regarding the purchase of these instruments.

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
CHB142	Chemistry I	12	6
BEB150	Biology	8	6 3 3 4
PNB163	Human Anatomy I	8	3
MAB251	Mathematics I	8	
PHB150	Physics IH	12	6
Semester 2	(Spring)		
CHB242	Chemistry II	12	6
PHB240	Optics II	14	7
OPB132	Ophthalmic Optics II	12	4
PHB250	Physics IIH	10	4
Semester 3	(Autumn)		
PNB363	Human Anatomy III	10	5
MSB471	Biochemistry IV	8	5 4 7 5 2
PHB340	Optics III	12	7
OPB312	Visual Science III	14	5
ISB385	Microcomputer Software Applications	4	2
Semester 4	(Spring)		
MSB450	Microbiology III	6	3
PNB435	Human Physiology	12	3 7 2 2 3 5
MAB252	Statistics	4	2
MSB430	Disease Processes IV	4	2
OPB401	Ocular & Regional Anatomy	8	3
OPB412	Visual Science IV	14	5
Semester 5	(Autumn)		
OPB508	Ocular Physiology	8	4
OPB509	Optometry V	18	9
OPB504	Ophthalmic Optics V	6	4
OPB505	Clinical Optometry V	8	4 4 3
OPB527	Diseases of the Eye V	8	3



Semester 6	(Spring)		
OPB608	Ocular Pharmacology	6	3
OPB609	Optometry VI	16	8 3
MNB130	General Psychology	4	
OPB605	Clinical Optometry VI	8	4
OPB627	Diseases of the Eye VI	8	4
OPB617	Contact Lens Studies VI	6	2
Semester 7	(Autumn)		
OPB709	Optometry VII	10	5
OPB705	Clinical Optometry VII	24	13
OPB717	Contact Lens Studies VII	6	2 2 2
MAB258	Experimental Design	4	2
OPB750	Project	4	2
Semester 8	(Spring)		
OPB803	Occupational/Public Health Optometry	6	2 2
MNB072	Practice Management	4	2
OPB805	Clinical Optometry VIII	32	17
OPB750	Project	6	4

PNJ229 Bachelor of Applied Science - Environmental Health

Course Duration: 6 semesters full-time

Total Credit Points: 290

Standard Credit Points/Full-Time Semester: 48.33

Course Co-ordinator: Mr Bruce Fleming $\rightarrow 2564$

Special Course Requirements

A registered student may enrol only in a full-time program. Students employed as cadet health surveyors will be permitted a maximum of six years to complete the course.

Field trips as detailed in the subject synopses have an attendance requirement and will be assessed.

	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn) $\iota^{\mu^{\mu^{(u^{l})}}}_{\rho^{\nu^{(u^{l})}}}$ Chemistry I $\iota^{\rho^{\nu^{(u^{l})}}}_{\rho^{\nu^{(u^{l})}}}$ Physics IH $\iota^{\rho^{(u^{l})}}_{\rho^{\nu^{(u^{l})}}}$ Biology IA		
CHB142	Chemistry I • Če ^{y®®}	12	6
PHB150	Physics IH	12 •	6
BEB103	Biology IA	8	3
BEB104	Biology IB	6	3
MAB150	Quantitative Techniques	6	6 3 3 2 2
CSB259	Laboratory Computing I •	6,	2
Semester 2	(Spring)		
PNB202	Environmental Health II	16	7
CHB242	Chemistry II	12	6
MAB252	Statistics	4	2
PHB250	Physics IIH	10	2 4 3
CMB106	Professional Communication	6	3
Semester 3	(Autumn)		
PNB203	Environmental Health III	14	7



PNB231 MSB301 BGB151 SVB101 LWS003	Anatomy & Physiology I Microbiology I Construction I Surveying & Measuring Law & Environmental Health	8 6 12 4 4	4 3 6 2 3
Semester 4	(Spring)		
PNB204 MSB402 PNB232 BGB153 BGB243 BGB345	Environmental Health IV Microbiology II Anatomy & Physiology II Construction II Law I - Building Acts & Regulations Hygiene & Sanitation	18 6 6 4 6	9 3 4 4 2 3
Semester 5	(Autumn)		
PNB205 PNB210 CMB300 LPS102 BGB013	Environmental Health V Occupational Health & Safety I Sociology for Health Professionals Introduction to Town Planning Building Services I - HVAC	30 6 2 4	16 3 3 2 2
Semester 6	(Spring)		
PNB206 PNB211 CMB400 MNB267	Environmental Health VI Occupational Health & Safety II Sociology of Health & Illness Psychology	30 8 6 4	16 4 3 3

PNJ270 Bachelor Of Applied Science - Podiatry

Course Duration: 6 semesters full-time

Total Credit Points: 292

Standard Credit Points/Full-Time Semester: 48.67

Course Co-ordinator: Mr Alan Crawford

Special Course Requirement

Students will be required to undertake 180 hours of clinical practice between semesters in the second and third years of the course.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
CHB142	Chemistry I	12	6
PHB150	Physics IH	12	6
MAB150	Quantitative Techniques	6	2 3
PNB163	Human Anatomy I	8	3
ISB385	Microcomputer Software Applications	4	2 2
MEB031	Material Technology	8	2
Semester 2	(Spring)		
CHB242	Chemistry II	12	6
PHB250	Physics IIH	10	4
PNB220	Systematic Anatomy	10	3
PHB252	Kinesiology & Biomechanics	6	2
MAB252	Statistics	4	2 2 3
MNB067	Psychology	6	3



Semester 3	(Autumn)			
PNB301	Advanced Anatomy	8	3	
PNB302	Podiatric Medicine I	10	3 5 3 4	
PNB303	Clinical Podiatry I	8	5	
PNB420	Orthotic Science I	6	3	
MSB471	Biochemistry IV	8	4	
PNB306	Pharmacology	8	3	
Semester 4	(Spring)			
PNB435	Human Physiology	12	7	
PNB412	Clinical Podiatry II	8	6	
PNB421	Podiatric Medicine II	12	4	
PNB506	Orthotic Science II	8	4 3 2	
MSB201	Microbiology	6	3	
MSB430	Disease Processes IV	4	2	
Semester 5	(Autumn)			
PHB313	Radiographic Image Interpretation	6	3	
PNB503	Podiatric Medicine III	10	3 3 9 2 3 3 2	
PNB504	Clinical Podiatry III	6	9	
PNB422	Podiatric Anaesthesiology	6	2	
PNB410	Medicine	8	3	
PNB406	Advanced Orthoses	6	3	
PNB304	Physical Medicine	6	2	
Semester 6 (Spring)				
PNB502	Dermatology	6	3	
PNB505	Podiatric Surgery	12	4	
PNB602	Sports Medicine	10	3	
PNB603	Clinical Podiatry IV	6	9	
PNB610	Project & Professional Management	6	4	
PNB411	Orthopaedics	8	3	

NSK198 Diploma of Applied Science - Nursing Education

Course Duration: 2 semesters full-time or 4 semesters part-time (combined day and evening) 2924

Standard Credit Points/Full-Time Semester: 50

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Course Co-ordinator: Ms Anne Dewar

This course is being phased out. The full-time program and Semesters 1 and 2 of the part-time program will not be offered in 1990 and subsequent years. Students wishing to recover units in these semesters should contact the Course Co-ordinator.

Special Course Requirement

Students in the part-time program will be required to undertake the practical component of NSD772 Field Experience during the recess period between Semesters 3 and 4.

Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 3	(Autumn)		
NSD735 🗸	Teaching Practice I	6	3
NSD763 🗸	Issues in Nursing I	6	3
NSD739 🏹	Principles of Nursing	2	2
NSD772 √	Field Experience	6	2.9
CMB106 🗸	Professional Communication	6	3



Semester 4 (Spring)				
NSD737 🗸	Evaluation in Nursing Education	6	2	
NSD736 🖌	Teaching Practice II	6	3	
NSD764 🏹	Issues in Nursing II	6	3	
NSD772 🗸	Field Experience	6	0.25	

NSK207 Diploma of Applied Science - Community Nursing

Course Duration: 2 semesters full-time or 4 semesters part-time

Standard Credit Points/Full-Time Semester: 48 2-76/ 2924

Course Co-ordinator: Ms Anne Dewar

This course is being phased out. The full-time program and Semesters 1 and 2 of the part-time program will not be offered in 1990 and subsequent years. Students wishing to recover units in these semesters should contact the Course Co-ordinator.

Special Course Requirement

Students in the part-time program will be required to undertake the practical component of NSD774 Field Experience during the recess period between Semesters 3 and 4.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk		
Semester 3	(Autumn)				
MSD751 PND750 NSD780 PND759 NSD763 NSD774	Introductory Epidemiology Nutrition in Health & Disease Community Nursing I Physiology Issues in Nursing I Field Experience	2 2 6 2 6 6	1 3 2 3 2.9		
Semester 4 (Spring)					
NSD781 NSD764 NSD774	Community Nursing II Issues in Nursing II Field Experience	12 6 6	4 3 0.25		

NSK208 Diploma Of Applied Science - Nursing

Course Duration: 6 semesters full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Ms Joan Penridge $25 \leq 1$

Special Course Requirements

Students who have undertaken three semesters of Senior Chemistry or its equivalent may apply for exemption in CHD149 Chemistry.

The Clinical Practice B subjects, i.e., NSD123, NSD223, NSD323, NSD423, NSD523, NSD623, each consist of a three week period of continuous practice following the relevant semester.



Semesters 5 and 6 - contact will be over a 10 week period to enable students to undertake two 2-week blocks of Clinical Practice during semester.

NSD522 Clinical Practice VA & NSD622 Clinical Practice VIA.

During semester students will undertake:

6 hours a week for 10 weeks = 60 hours 40 hours a week for 4 weeks = 160Total = 220

Students who began the course prior to 1988 and wish to recover units should contact the Course Co-ordinator.

Full-time (Course Structure	Credit Points	Contact Hrs/Wk
Semester 1 NSD120		2	2
NSD120	Perspectives for Nursing Practice I Concepts for Nursing Practice I	3 6	2 3
NSD122	Clinical Practice IA	9	8
PND131	Anatomy	9	4
MND011	Psychology I	6	3
CHD148	Chemistry	6	3 3
AFTER SEM NSD123	IESTER Clinical Practice IB	9 3 wk	s (40 hrs)
		7 J WK	3 (40 113)
Semester 2			
NSD220	Perspectives for Nursing Practice II	6	2 3
NSD221	Concepts for Nursing Practice II	6	3
NSD222	Clinical Practice IIA	9	8
PND241	Biomedical Science	6	3
PHD351	Physics for Nurses	3	2
LWD001	Law for Nurses	3	3 2 2 3
CMD100	Sociology	6	3
AFTER SEN NSD223	IESTER Clinical Practice IIB	9 3 wk	s (40 hrs)
Semester 3	(Autumn)		
NSD320	Perspectives for Nursing Practice III	6	2
NSD321	Concepts for Nursing Practice III	6	3
NSD322	Clinical Practice IIIA	9	10
PND340	Clinical Physiology I	9	4
MSD360	Microbiology I	3	2
MND033	Psychology II	6	3
AFTER SEM			
NSD323	Clinical Practice IIIB	9 3 wk	s (40 hrs)
Semester 4	(Spring)		
NSD420	Perspectives for Nursing Practice IV	6	2
NSD421	Concepts for Nursing Practice IV	6	3
NSD422	Clinical Practice IVA	9	10
PND421	Food Nutrition	6	3 3
CMB106	Professional Communication	6	3
CMD200	Sociology of Health & Illness	6	3
AFTER SEM		0 2 1	
NSD423	Clinical Practice IVB	9 3 wk	s (40 hrs)
Semester 5	(Autumn)		
NSD520	Perspectives for Nursing Practice V	6	3
NSD521	Concepts for Nursing Practice V	6	4





NSD522 PND540 MND055 MSD680	Clinical Practice VA Clinical Physiology II Psychology III Epidemiology	9 6 6 6	15 3 3 3
AFTER SEM NSD523	IESTER Clinical Practice VB	9	3 wks (40 hrs)
Semester 6	(Spring)		
NSD620 NSD621 NSD622 MSD460 PND640 MND066	Perspectives for Nursing Practice VI Concepts for Nursing Practice VI Clinical Practice VIA Microbiology II Clinical Physiology III Psychology IV	6 9 6 6	3 4 15 3 3 3
AFTER SEM NSD623	IESTER Clinical Practice VIB	9	3 wks (40 hrs)

NSK215 Diploma Of Applied Science - Nursing Management

Course Duration: 2 semesters full-time or 4 semesters part-time

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Ms Anne Dewar

This course is being phased out. The full-time program and Semesters 1 and 2 of the part-time program will not be offered in 1990 and subsequent years. Students wishing to recover units in these semesters should contact the Course Co-ordinator.

Special Course Requirement

Students in the part-time program will be required to undertake the practical component of NSD771 Field Experience during the recess period between Semesters 3 and 4.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 3	(Autumn)		
NSD718	Nursing Management I	6	4
NSD763	Issues in Nursing I	6	3 2
NSD720	Law for Nurse Managers	6	2
NSD771	Field Experience	6	2.9
Semester 4	(Spring)		
NSD719	Nursing Management II	6	2
NSD764	Issues in Nursing II	6	3
NSD769	Policy Making & Planning OR	6	4
NSD768	Unit Management	6	3
NSD771	Field Experience	6	0.25

NSK216 Diploma Of Applied Science - Clinical Nursing Studies

Course Duration: 2 semesters full-time or 4 semesters part-time



Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Ms Anne Dewar

This course is being phased out. The full-time program and Semesters 1 and 2 of the part-time program will not be offered in 1990 and subsequent years. Students wishing to recover units in these semesters should contact the Course Co-ordinator.

Special Course Requirement

Students in the part-time program will be required to undertake the practical component of NSD773 Field Experience during the recess period between Semesters 3 and 4.

Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 3	(Autumn)		
NSD757 NSD763 NSD773	Advanced Clinical Nursing I Issues in Nursing I Field Experience	12 6 6	6 3 2.9
Semester 4	(Spring)		
NSD758 NSD764 NSD773	Advanced Clinical Nursing II Issues in Nursing II Field Experience	12 6 6	6 3 0.25

PNK172 Diploma Of Applied Science - Podiatry

Course Duration: 6 semesters full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Alan Crawford

This course is being phased out and Semesters 1 and 2 will not be offered in 1990 and subsequent years.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 3	(Autumn)		
PND420 PND430 MSD410 PND431 PND441 PND470 PND452	Anatomy II Physiology Pathology Podiatry III Orthotics III Human Genetics & Development Therapeutics II	6 10 2 2 6 2 2 2	3 6 1 10 3 1 1
Semester 4	(Spring)		
PHD460 PND469 PND471 PND432 PND442 CMD411 PND710 PND460	Kinesiology & Biomechanics Medicine Surgery Podiatry IV Orthotics IV Sociology Pharmacology Podiatric Anaesthesiology	4 6 4 18 6 2 4 4	2 3 10 3 2 2 2 2



Semester 5	(Autumn)		
PND752	Clinical Biomechanics	6	3
PND701	Dermatology	4	2
MND501	Psychology	6	3
PND731	Podiatry V	26	13
PND461	Special Procedures Clinic	6	2
Comoston (
Semester (6 (Spring)		
PND761	Sports Medicine	6	3
		6 4	3 2
PND761	Sports Medicine		3 2 13
PND761 MNB072	Sports Medicine Practice Management	4	

MSL182 Associate Diploma in Clinical Laboratory Techniques

Course Duration: 4 semesters full-time or 8 semesters part-time

Total Credit Points: 190

Standard Credit Points/Full-Time Semester: 47.5

Course Co-ordinator: Mr Neville Tingle

Special Course Requirements

Students may undertake the course on a full-time or part-time basis. There is no evening program for this course. Part-time students will be required to attend lectures during normal working hours.

Students entering the course may undertake either of two strands - Laboratory Strand, or Clinical Measurement Strand (subject to adequate enrolments). To be awarded the Associate Diploma in Clinical Laboratory Techniques, a student must complete all the subjects of either the Laboratory Strand or the Clinical Measurement Strand.

PHA562 Cardiac Measurement Techniques, PHA662 Respiratory Measurement Techniques, PHA762 Neurological Measurement Techniques and PHA862 Urological Measurement Techniques comprising one month each of clinical attachment will be arranged in association with an approved institution; such clinical attachment will require attendance during normal working hours.

Full-time students wishing to undertake Clinical Measurement Strand studies are required to consult the Course Co-ordinator prior to enrolling in these subjects. These subjects are only offered during the evening at present.

Students who have successfully completed Semesters 1 - 2 in the full-time program or 1 - 4 in the part-time program may enter the Clinical Measurement Strand either at Semester 5 or Semester 7.

If the Clinical Measurement Strand (Semesters 5 - 8) is entered after the successful completion of Semester 1 and 2 in the full-time program, students will be required to pass MAA251 Statistics and Data Processing in addition.

Students may be exempted from whole or part of a unit on providing evidence of training and experience acceptable to the Head of Department.



Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
		o	4
MSA111	Biological Chemistry I	8 8	4
MSA123	Laboratory Instrumentation I		4
PHA154	Introductory Physics	8	3
PNA170	Anatomy & Pbysiology I	8	4 3 3 1
MSA161	Microbiology I	8	3
MSA120	Perspectives in Medicine	4 4	2
CMA133	Communication Techniques	4	2
Semester 2	(Spring)		
MSA112	Biological Chemistry II	8	4
PNA171	Anatomy & Physiology II	8	3
MSA124	Laboratory Instrumentation II	8	4
PHA213	Medical Instrumentation II	8	
MSA162	Microbiology II	8	4 3 2
MSA121	Pathology	8	2
LABORAT	ORY STRAND		
Semester 3			
MAA251	Statistics & Data Processing	8	2
Five of the fo	e e	0	-
MSA471	Clinical Biochemical Techniques III	8	4
MSA471 MSA441		8	4
	Clinical Microbiological Techniques III	8	4
MSA481	Haematological Techniques III Histological Techniques III	8	4
MSA463 MSA435	U I	8	4
MSA455 MSA465	Immunological Techniques III Cytological Techniques III*	8	4
		· ·	-
Semester 4		,	
CSA259	Introduction to Computing*	6	2
Five of the fol			
MSA472	Clinical Biochemical Techniques IV	8	4
MSA442	Clinical Microbiological Techniques IV	8	4
MSA482	Haematological Techniques IV	8	4
MSA464	Histological Techniques IV	8	4
MSA436	Transfusion Techniques IV	8	4
MSA466	Cytological Techniques IV*	8	4
CLINICAL	L MEASUREMENT STRAND		
Semester 3	(Autumn) not offered in these semes	ters	
	(Spring) of the full-time program.		
		~	~
Part-Time	Course Structure	Credit	Contact Hrs/Wk
Semester 1	(Autumn)	Points	1115/ VV K
MSA111	Biological Chemistry I	8	4
PHA154	Introductory Physics	8	3
MSA123	Laboratory Instrumentation I	8	4
Semester 2	-		
MSA112		9	4
MSA112 MSA124	Biological Chemistry II	8 8	4
PHA213	Laboratory Instrumentation II Medical Instrumentation II	8	4
11/1213	moment matternation 11	0	4

* Subjects timetabled only in Evening Program for both full-time and part-time students.

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Semester	3 (Autumn)		
MSA161	Microbiology I	8	3
PNA170	Anatomy & Physiology I	8	3
CMA133	Communication Techniques	4	2
MSA120	Perspectives in Medicine	4	1
Semester	4 (Spring)		
MSA162	Microbiology II	8	3
T			
PNA171	Anatomy & Physiology II	8	3
PNA171 MSA121	Anatomy & Physiology II Pathology	8 8	3 2

From Semester 5 students should choose either the Laboratory Strand or Clinical Measurement Strand.

LABORATORY STRAND

Students enrolled in the part-time program are required to pass Introduction to Computing together with five Techniques III subjects and five Techniques IV subjects only over the four semesters.

Semester 5 (Autumn)

MSA471	Clinical Biochemical Techniques III	8	4
MSA481	Haematological Techniques III	8	4
MSA441	Clinical Microbiological Techniques III	8	4
Semester 6	(Spring)		
CSA259	Introduction to Computing	6	2
MSA472	Clinical Biochemical Techniques IV	8	4
MSA482	Haematological Techniques IV	8	4
MSA442	Clinical Microbiological Techniques IV	8	4
Semester 7	(Autumn)		
MSA463	Histological Techniques III	8	4
MSA435	Immunological Techniques III	8	4
MSA465	Cytological Techniques III	8	4
Semester 8	(Spring)		
MSA464	Histological Techniques IV	8	4
MSA436	Transfusion Techniques IV	8	4
MSA466	Cytological Techniques IV	8	4

CLINICAL MEASUREMENT STRAND

Students are required to pass Introduction to Computing and the Clinical Measurement Units in each of the four semesters.

Semester 5 (Autumn)

PNA550 PHA561 PHA562	Cardiac Physiology & Anatomy Cardiac Instrumentation Cardiac Measurement Techniques	4 6 9	2 3
Semester 6	(Spring)		
PNA650	Respiratory Physiology & Anatomy	4	2
PHA661	Respiratory Instrumentation	6	3
PHA662	Respiratory Measurement Techniques	9	
CSA259	Introduction to Computing	6	2
Semester 7	(Autumn)		
PNA750	Neurological Physiology & Anatomy	4	2
PHA761	Neurological Instrumentation	6	3
PHA762	Neurological Measurement Techniques	9	



Semester 8 (Spring)

CSA259	Introduction to Computing	6	2
PNA850	Urological Physiology & Anatomy	4	2
PHA861	Urological Instrumentation	6	3
PHA862	Urological Measurement Techniques	9	

Recognition by Professional Bodies

MSL182 Associate Diploma in Clinical Laboratory Techniques

The course is recognised by both the Commonwealth and State Governments as a suitable employment qualification. Graduates from this course are recognised by the Australian Institute of Medical Laboratory Scientists and are eligible to become intermediate members of this professional body.

NSK208 Diploma of Applied Science - Nursing

Graduates are eligible for registration within Australia, and have been successful in obtaining registration in Britain and the USA.

The Diploma of Applied Science (Nursing) satisfies the academic requirements for admission as a professional Member to the College of Nursing Australia.

MSJ126 Bachelor of Applied Science - Medical Laboratory Science

Graduates are immediately eligible for graduate membership of the Australian Institute of Medical Laboratory Scientists and will have completed the academic requirements for admission as associate members.

NSJ231 Bachelor of Applied Science - Nursing

This course is recognised by the College of Nursing Australia as satisfying the academic requirements for admission as a professional member.

OPJ202 Bachelor of Applied Science – Optometry

In each state and territory of Australia, the practice of optometry is regulated by Boards of Optometrical Registration which are statutory bodies set up under Acts of States' Parliaments. Under these Acts, the practice of optometry is restricted to persons whose names appear on the Register. On completion of the degree course at Queensland University of Technology, the graduate will have satisfied the requirements of the Optometrists' Board of Queensland, and may apply for registration to practise as an optometrist in Queensland and all States and Territories of Australia.

PNJ229 Bachelor of Applied Science - Environmental Health

Graduates are eligible for membership of the Australian Institute of Health Surveyors and the Environmental Institute of Australia. This course is the only one available in Queensland from which graduates will be approved by the Director-General of Health and Medical Services to work as an environmental health officer or health surveyor within the State.

PNJ270 Bachelor of Applied Science – Podiatry PNK172 Diploma of Applied Science – Podiatry

Graduates from the course will be eligible for State Registration throughout Australia. The QUT qualification is also acceptable for registration in the United Kingdom, New Zealand and the EEC countries.

Graduates also become Members of the Australian Podiatry Association and are eligible to apply for membership of the Australian Sports Medicine Federation.



General Information

Telephone Numbers

Health Science Faculty Office	223 2356
Dept of Medical Laboratory Science	223 2553
Centre for Molecular Biotechnology	223 2667
Analytical Electron Microscope Facility	223 2557
School of Nursing	223 2572
Dept of Optometry	223 2622
Dept of Public Health and Nutrition	223 2304
Weight Control Clinic	223 2609

Staff

Dean: A.J. Webber, MS(G'townWashDC), PhD(Qld), DMT, FAIMLS Faculty Administration Officer: C.W. Melvin, MBA(Qld), BBus

Medical Laboratory Science

Head of Department: J.S. Welch, MSc PhD Q'ld., MPH Syd., FAIMLS Principal Lecturer: J.L. Dale, BScAgr Q'ld., PhD Syd Senior Lecturers: J.G. Aaskov, BSc Q'ld., PhD Leeds D.J. Allan, BSc(Vet) BVSc MB BS PhD Q'ld D.W. Allen, BSc Birm., PhD A.N.U., FRMS E.A. Bennett, BA BSc Q'ld P.P. Stallybrass, BAppSc, MS Buffalo New York, FAIMLS P. Timms, MSc PhD O'ld N.A. Tingle, MSc Griff., BAppSc, FAIMLS P.A. Wood, BSc PhD Q'ld Lecturers: A.J. Anderson, MSc O'ld T.N. Cassidy, BSc BA Q'ld J.F. Coulson, BPharm Lond., MPharm Q'ld., PhD Strath C.J. Craven, MSc Q'ld R.J. Epping, BSc PhD A.N.U. T.H. Forster, MAppSc L. Hafner, BSc LaT A. Pope, BSc Q'ld R.J. Sheedy, BSc Q'ld D.A. Stormont, MSc Q'ld., GradDipNutr&Diet T.P. Walsh, PhD Q'ld

School of Nursing

Head of School: M.E. Clinton, BA, PhD, SE Teach. Cert., RCNT, P-G Cert. Ed., RNT Senior Lecturers: A.L. Dewar, BA BScN Sask., MHP N.S.W. J.D. Gaskill, MApppSc GradDipHealthSc Curtin J.W. Penridge, BEdSt Q'ld., DipNEd K.S. Stolz, MS Roch., DipNAdmin, BBus Lecturers: D. Collins, BA Q'ld., BAppSc



I.M. Coonan, BAppSc Curtin M.L. Curry, BAppSc H. Edwards, BA Q'ld., DipAppSc R. Elder, BA Q'ld R.E. Nash, BA Q'ld., DipAppSc M. Nebauer, BAppSc F. Sanders, BA Q'ld., DipAppSc LaT D. Weir, BA BSc Flin C. Windsor, BA Griff

Optometry

Head of Department: K.J. Bowman, MScOptom Melb., FAAO
Principal Lecturer: B. Brown, BSc MAppSc PhD Melb
Senior Lecturers:
J.E. Kitchin, MScOptom Melb., GradDipRehab LaT., FAAO
P.G. Swann, BSc Aston, MAppSc, FAAO
Lecturers:
D.A. Atchison, MScOptom PhD Melb., FAAO
J.D. Bevan, GradDipHE Brisbane College of Advanced Education, DipAppSc
M.J. Collins, MAppSc, FAAO
C.F. Wildsoet, BSc Q'ld., DipAppSc
Research Fellow:
J. M. Wood, BSc PhD Aston

Public Health & Nutrition

Head of Department: C. Reilly, BPhil Gregorian Faculty Tullamore, BSc University College Dublin National University of Ireland, PhD UCDub, HDipEd Clongowes Wood College Ireland Senior Lecturers: M.F. Capra, MSc Syd., PhD Otago B.E.H. Fleming, MSc Griff A. Crawford, Teachers Cert Manc., BEd Brisbane College of Advanced Education Lecturers: M.W. Ablott, Teachers Cert Manc., BEd Brisbane College of Advanced Education S. Capra, BSc DipNutDiet Syd., MSocSc Birm C. Dallemagne, MB BS Free University of Brussels, DipTropMed O'ld P. Davey, BBus(Health Admin), AssocDipHlthSurv H.S.F. Loh, BSc NE B.W. Macdonald, BSc O'ld, BAppSc W. McLaren, DipAppSc P.S. Nesbitt, DipChir Salf B.G. Stevens, BSc Q'ld D.J. Waldock, BSc Griff, GradDipOHS Curtin M.O. Young, BA BSc MB BS Q'ld

Prizes and Awards

Allergan Pharmaceutical Pty. Ltd. Prize

Awarded to the final year Optometry student who obtains most distinction in the subject 'Contact Lens Studies'.



Australian Association of Clinical Biochemists Prize

Donated by the Queensland Branch of the Association, and awarded to the student in the Bachelor of Applied Science - Medical Laboratory Science, who gains the highest aggregate marks with distinction in the subjects 'Clinical Biochemistry V' and 'Clinical Biochemistry VI'.

Australian Biomechanics Corporation Award

Awarded to the student in the Diploma of Applied Science - Podiatry who attains the highest rate of progression in clinical podiatry during the fifth and sixth semesters.

Australian Institute of Health Surveyors Prize

Awarded to the graduating student who obtains with distinction, the highest weighted grade point average in the Bachelor of Applied Science - Environmental Health.

Australian Institute of Medical Laboratory Scientists Prize

Awarded to the graduating student who obtains, with distinction, the highest aggregate marks over all of the clinical techniques subjects of the Associate Diploma in Clinical Laboratory Techniques.

Centaur Memorial Fund for Nnrses Award

Donated by the Committee of the Centaur Memorial Fund for Nurses and awarded to the graduating student enrolled in the Diploma of Applied Science - Nursing course who shows excellence throughout the course as a student of the theory and practice of nursing. The selection of the recipient is made by the Student Body of the final year students in the course.

Robert Chan Award for Therapeutic Dietetics

Awarded to the student who demonstrates outstanding application of therapeutic dietetics, based on performance in the subjects 'Introduction to Dietetics Practice II' and 'Practice in Therapeutic Dietetics'. The recipient will be selected by a panel of academic staff from nominations submitted by class members.

Clark's Prize

Donated by Clark's Shoes Ltd, and awarded to the graduating student who obtains the highest aggregate marks over all subjects of the Diploma of Applied Science - Podiatry course.

L.K. Claxton Award

Donated by the Australian Podiatry Association (Queensland) and awarded to the student in the Bachelor of Applied Science - Podiatry, who shows the greatest proficiency in the first two semesters of the course.

College of Nursing, Australia - Queensland Award

Awarded each year to the nursing student who gains the highest aggregate marks in the subjects 'Issues in Nursing I' and 'Issues in Nursing II'.

Dietitians Association of Australia - Queensland Branch Prize

Awarded to the student in the Graduate Diploma in Nutrition and Dietetics who is overall the top achiever taking into account the aggregate marks in the first two semesters of the course and performance in all areas of third semester as judged by lecturers in Nutrition and Dietetics.

The C.W. Graves Award for Orthotics

Donated by the Australian Podiatry Association (Queensland Branch) and awarded to the final year student who has shown the greatest proficiency in the area of Orthotics.



James Vincent Duhig Prize

Donated by the Australian Institute of Medical Laboratory Scientists, and awarded to the student who gains the highest pass, with distinction, in the unit 'Histopathology VI' in the Bachelor of Applied Science - Medical Laboratory Science course.

Florence Nightingale Committee, Australia - Queensland Branch Prizes

- (a)Awarded to the graduating student who obtains the highest aggregate marks over all subjects of the Diploma of Applied Science - Clinical Nursing Studies.
- (b) Awarded to the graduating student who obtains the highest aggregate marks over all subjects in the Bachelor of Applied Science Nursing (Research Strand).

Food Technology Association of Queensland Prize

Awarded to the graduating student who obtains the highest aggregate marks in the Graduate Diploma in Nutrition and Dietetics.

A.M. Fraser Health Science Award

This award is available to students in all courses in the School of Health Science. The recipient will be selected by a panel of academic staff from nominations submitted by class members from each course in the School, and will be the student who demonstrates exceptional application, determination and enterprise in the successful completion of his or her course.

Noel Middleton Gutteridge Memorial Prize

Donated by Mrs N M Gutteridge, and awarded to the student who obtains, with distinction, the highest pass over the ninth to twelfth semesters of the part-time course leading to the Bachelor of Applied Science - Medical Laboratory Science degree.

Harley Award

Donated by Harley Surgical Appliance Company Pty Ltd, and awarded to the final year student in the Diploma of Applied Science - Podiatry who gains the greatest distinction in the final year of the course.

Michael & Elizabeth Innis Prize

Awarded to the student who gains the highest pass with distinction in the units 'Haematology V' and 'Haematology VI' in the Bachelor of Applied Science - Medical Laboratory Science course.

D.W. Johnson Prize

Donated by the Queensland Division of the Australian Institute of Health Surveyors, and awarded to the graduating student who obtains, with distinction, the highest aggregate of marks in the subjects 'Environmental Health I, II, III, IV, V and VI'.

I.M. & M.J. Mackerras Prize

Donated by the Australian Institute of Medical Laboratory Scientists, and awarded to the student who gains the highest pass with distinction in the subject area of 'Medical Parasitology' within the unit 'Microbiology VI'.

Spotless Catering Services Prize

Awarded to the student enrolled in the Graduate Diploma in Nutrition and Dietetics who submits the best report in the subject 'Practice in Large Scale Feeding'.

The Medeleq Award

Awarded to the student in the second year of the Diploma of Applied Science - Podiatry who shows the greatest proficiency in practical podiatry.

Royal College of Pathologists of Australia (Queensland Committee) Prize

Awarded to the student who obtains the highest pass in the units 'Microbiology V' and 'Clinical Bacteriology VI' in the Bachelor of Applied Science - Medical Laboratory Science course.



J.R. Saal Prize

Donated by the Australian Institute of Medical Laboratory Scientists and awarded to the full-time student graduating in minimum time, who obtains, with distinction, the highest aggregate marks over all of the clinical subjects of the Bachelor of Applied Science - Medical Laboratory Science course.

Paddy Behan Memorial Prize

Donated by the Local Government Association of Queensland and awarded to the student who gains the highest marks for project work in the subject 'Environmental Health VI'.

Dr Leo Kelly Award for Dermatology

Donated by the Australian Podiatry Association (Qld) and awarded to a third year Podiatry student for his/her achievement in Dermatology.



FACULTY OF INFORMATION TECHNOLOGY



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FACULTY OF INFORMATION TECHNOLOGY

Courses Offered

- INN184 Master of Applied Science by Research & Thesis (see page 16)
- INN236 Master of Applied Science Computing
- CSM219 Graduate Diploma in Computing Science
- ISM165 Graduate Diploma in Library Science
- ISM204 Graduate Diploma in Commercial Computing
- CSJ255 Bachelor of Applied Science Computing (Honours)
- INJ232 Bachelor of Business Computing and Bachelor of Applied Science - Computing (Common First Year)
- CSJ128 Bachelor of Applied Science Computing
- IFJ222 Bachelor of Engineering/Bachelor of Applied Science -Electronics and Computing (see page 22)
- IFJ235 Bachelor of Business Computing/Bachelor of Laws (see page 27)
- IF J251 Bachelor of Applied Science Surveying/Bachelor of Business - Information Management (see page 31)
- ISJ210 Bachelor of Business Computing
- ISJ243 Bachelor of Business Information Management

The Faculty

The technological developments of the last decade have produced a demand for professional workers in the information processing and information services sector which, it is expected, will continue to exceed supply in the foreseeable future.

This Faculty has developed an infrastructure of courses which has been successful in addressing the demand for information technology professionals in fields which range from senior management to high technology.

The Faculty is concerned with all aspects of information technology - from the study of computing and communications devices to the provision of information services. It is organised into two Schools, Computing Science and Information Systems. The special interests of the School of Computing Science include systems programming, language processing and computer communications, and the School has particular involvement in the promotion of the use of structured languages for systems programming tasks. The School of Information Systems' major areas of interest cover a wide range of applications



- from commercial-orientated computer-based information systems to the management of information, and librarianship/information services.

The Faculty also operates the Information Security Resource Centre which provides a consultancy, training, research and development service to industry, government and commerce in the areas of data and computer security.

Because it is anticipated that an increasing proportion of future graduates will be employed in a development - as opposed to an application - environment, the balance and content of the Faculty's course offerings is altering. These changes are reflected in the introduction of double degree courses, including the new surveying/information management program (commencing in 1990), two Honours programs (one commencing in 1990, the other in 1991), and the proposed introduction of a Masters in Information Technology (scheduled for 1991).

Course Structures*

INN236 Master of Applied Science - Computing

Course Duration: 4 semesters full-time, 8 semesters part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Dr Gerry Finn

Entry Requirements

Registrants are required to have completed a degree level course which contains a major component in computing or, alternatively, a degree course and a graduate diploma level course in computing. The minimum level of performance expected within prerequisite studies is a GPA (grade point average) of 4.00 (or its equivalent) on a 7 point scale. Selection may be determined on an individual basis and subject to the approval of the Head of School.

Special Course Requirements

Registrants may be eligible for exemption of up to a maximum of 48 credit points on the basis of equivalent subjects completed in earlier studies other than Honours or Masters qualifying. Those registrants who have completed a suitable Honours degree or who have completed a Masters qualifying program may be exempted up to 96 credit points, i.e., half of the total credit points of the course, typically those subjects in years one and two. The granting of any exemption is subject to the approval of the Head of School.

The course structure comprises core, project and elective components. The student intake will be heterogeneous and some students may need to undertake advanced undergraduate subjects which are prerequisites for core subjects. A maximum of 48 credit points may be credited towards the requirements for completion of the course, which entail completion of 192 credit points.

The core component comprises six subjects (72 credit points) and for students with all necessary prerequisite qualifications these subjects will be undertaken in the first four semesters of the part-time course. The six mandatory subjects are:

* See the Special Note relevant to all courses on page 216.



Core Subjects		Credit Contact	Points Hrs/Wk
CSN100	Theory of Computing I	12	3
CSN110	Compiler Construction	12	3
CSN200	Computer Security	12	3
CSN210	Distributed Systems	12	3
CSN220	Antificial Intelligence	12	3
ISN100	Information Systems I	12	3

The project component comprises four to six semester subjects (48 - 72 credit points) depending upon student choice. At least one major (two-semester) project must be included in this component.

Protect Subjects

	0		
INi .500	Minor Project	12	3
INN301	Minor Project	12	3
INN302	Minor Project	12	3
INN303	Minor Project	12	3
INN400	Major Project - Part I (mandatory)	12	3
INN450	Major Project - Part II (mandatory)	12	3

The number of advanced electives taken by an individual student will depend upon the number of prerequisite subjects undertaken and number of projects selected. A minimum of two electives (24 credit points) must be selected and and a maximum of six subjects (72 credit points) may be selected from this range. The offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject and the availability of staff. The choice of all electives is subject to the approval of the relevant Head of School.

Advanced Electives

CSN310Parallel Processing12CSN320Formal Secure Systems12CSN330Natural Language Processing12CSN340Compiler Laboratory12CSN350Advanced Graphics I12CSN360Advanced Graphics II12INN310Advanced Data Communications12	3 3 3 3 3 3 3
INN310Advanced Data Communications12ISN300Information Systems II12	3 3

Full-Time Course Structure

Due to prerequisite limitations, the scheduling of subjects for full-time study programs needs to be negotiated with individual students. All such programs must be approved by the Dean of Faculty.

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A typical sequence for the part-time program is outlined below.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1	· · ·	12	2
CSN100 CSN200	Theory of Computing I Computer Security	12 12	3 3
Semester 2	(Spring)		
CSN110 ISN100	Compiler Construction Information Systems 1	12 12	3 3
Semester 3 CSN210	(Autumn) Distributed Systems	12	3



	Elective	12	3
Semester 4	(Spring)		
CSN220	Artificial Intelligence Elective	12 12	3 3
Semester 5	(Autumn)		
INN300	Minor Project Elective	12 12	3 3
Semester 6	(Spring)		
INN301	Minor Project Elective	12 12	3 3
Semester 7	(Autumn)		
INN400	Major Project - Part I Elective	12 12	3 3
Semester 8	(Spring)		
INN450	Major Project - Part II Elective	12 12	3 3

Since there are no prerequisites between the core subjects offered in years one and two, these subjects may be offered in alternate years. The first two years in the above sequence may thus be taken in either order.

CSM219 Graduate Diploma in Computing Science

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Dr John Hynd

Entry Requirements

An applicant seeking admission into the Graduate Diploma in Computing Science is required to:

- (a) hold a degree (UGI) in a discipline other than computing* from a recognised university or college of advanced education;
- (b) have completed, within their degree studies, an introductory level subject in mathematics and Pascal programming (the equivalent of at least three hours per week for one semester in each).

Provision may be made for applicants whose degrees have not included introductory mathematics and/or computing to complete these subjects before entering the course. Such additional studies would be in subjects taken from existing degree courses.

Special Course Requirements

Students in the Graduate Diploma in Computing Science may be granted exemption from a maximum of 12 credit points on the basis of their prior studies. Students who have beengranted the maximum exemption will, therefore, be required to complete a minimum of 84 credit points in order to qualify for the award. Should such students have studied

* Applicants with undergraduate degrees which include major studies in computing will not be eligible for admission into the course.



material similar to that included in any of the remaining prescribed subjects of the course, substitute subjects may be taken. All exemptions or substitutions shall be determined by the Head, School of Computing Science.

As part of the core of the course, all students must complete a project extending over one semester, approved and subsequently supervised by teaching staff from the Faculty of Information Technology. In addition, students will be permitted to undertake an extra project subject as an elective, but not in the same semester.

The offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject and the availability of staff. The choice of all electives is subject to the approval of the relevant Head of School.

Students wishing to enrol in a full-time program should discuss choice of subjects with the Course Co-ordinator. Not all subjects are offered during the day. Full-time students may be required to attend evening classes.

Full-Tim	e Course Structure	Credit Points	Contact Hrs/Wk
Semester	1 (Autumn)		
CSP112	Software Principles	12	3
CSP213	Scientific Applications	12	
ISP101	Data Design & Processing	12	3 3 3
INP270	Data Communications	12	3
Semester	2 (Spring)		
CSP211	Systems Architecture & Operating System	ems12	3
CSP214	Programming Languages & Structures	12	3
CSP960	Project Work	12	3
	Elective(s) [minimum of 12 credit point	s]	
Part-Tim	e Course Structure	Credit Points	Contact Hrs/Wk
_			

Semester 1	(Autumn)			
CSP112	Software Principles	12	3 3	
ISP101	Data Design & Processing	12	3	
Semester 2	(Spring)			
CSP211	Systems Architecture & Operating System	s12	3 3	
CSP214	Programming Languages & Structures	12	3	
Semester 3	(Autumn)			
CSP213	Scientific Applications	12	3 3	
INP270	Data Communications	12	3	
	OR			
	Elective(s) [minimum of 12 credit points]			
Semester 4	(Spring)			
CSP960	Project Work	12	3 3	
INP270	Data Communications OR	12	3	
	Elective(s) [minimum of 12 credit points]			
Electives				
Electives m	ay be selected from the following list:			
COMPUTING SCIENCE SUBJECTS				
CSB320	Special Studies	9	3 3	
CSB321	Graphics	9	3	

INFORMATION TECHNOLOGY



CSB323	Data Security	9	3
CSB324	Artificial Intelligence	9	3
CSB325	Expert Systems	9	3
CSB326	Systems Programming	9	3
CSB350	Miscellaneous Studies	3	1
CSP212	Languages & Language Processing	12	3
CSP970	Project Work A*	12	3
INFORMAT	ION SYSTEMS SUBJECTS		
ISB283	Database & Procedural Languages	9	3
ISP301	Advanced Database	12	3
ISP383	Office Information Systems	12	3
ISP998	Special Topic in Commercial Computing	12	3

ISM165 Graduate Diploma in Library Science

Course Duration: 2 semesters full-time, or 4 semesters part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Dr. John Goodell

Entry Requirements

To be eligible to register for courses leading to the Graduate Diploma in Library Science, applicants should hold a degree, other than in librarianship, from an Australian university or college of advanced education. Applicants who do not thus qualify for eligibility to register, but who present documentary evidence of their academic qualifications (e.g., a degree from an overseas university or a diploma (UG2 award) from an Australian College of Advanced Education or a diploma from a professional organisation) and have this evidence accepted by the Admissions Committee as having attained an equivalent standard, may be admitted to the course.

Special Course Requirements

All subjects listed in the course necessitate the collection of data from sources off-campus. Students are required independently to carry out sufficient field trips to collect such data.

All students are required to complete satisfactorily a minimum of six weeks Field Experience, working under appropriately controlled conditions, in a library approved by the Head of School. Field experience may normally be divided into no more than two separate periods of three weeks apiece. For full-time students, part or all of the Field Experience may be gained during the University vacation or delayed until after the conclusion of coursework. Part-time students are normally expected to complete their fieldwork requirements during the University vacation, but if there are compelling reasons for doing so Field Experience may be delayed until after the conclusion of successfully completing all other course requirements. Credit will not normally be given for work experience for full-time students prior to the successful completion of the first semester's work, or for part-time students prior to successful completion of two semesters' work. Part-time students, working for salary in an approved library during their course period, whose work experience for at least the minimum six

* Not to be taken concurrently with CSP960 Project Work.

weeks meets the required conditions of appropriate level and diversity, may receive fieldwork credit. Field experience arrangements for all students must be channelled through the Field Experience Co-ordinator in the School of Information Systems. Credit for this component of the course will be given only after completion of all fieldwork requirements.

The offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject and the availability of staff. The choice of general electives is subject to approval by the Head of School.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk	
Semester 1	(Autumn)			
ISP410 ISP411 ISP412 ISP413	Collection Building & Use I Information Storage & Retrieval I Information Users & Services I Information Agency Management & Services I	8 8 8	2 2 2	
	Elective	12	2 3	
Semester 2	(Spring)			
ISP420 ISP421 ISP422	Collection Building & Use II Information Storage & Retrieval II Information Users & Services II	8 8 8	2 2 2	
ISP423 ISP428	Information Agency Management & Services II Field Experience	8 8	2	
131 420	Elective	12	3	
Part-Time	Course Structure	Credit Points	Contact Hrs/Wk	
Semester 1	(Autumn)			
ISP411 ISP412	Information Storage & Retrieval I Information Users & Services I	8 8	2 2	
Semester 2	(Spring)			
ISP421 ISP422	Information Storage & Retrieval II Information Users & Services II	8 8	2 2	
Semester 3	(Autumn)			
ISP410 ISP413	Collection Building & Use I Information Agency Management &	8	2	
	Services I Elective	8 12	2 3	
Semester 4 (Spring)				
ISP420 ISP423	Collection Building & Use II Information Agency Management &	8	2	
ISP428	Services II Field Experience	8	2	
101 120	(unless previously completed) Elective	8 12	3	

Electives

Electives may be chosen from the following, or any other approved subject.

AUTUMN SEMESTER ELECTIVES CMB163 Introduction to Audio-visual Communication 12 3



ISP418 ISP419	Information & Referral Services Government Documents	12 12	3 3
SPRING SEI	MESTER ELECTIVES		
ISP414	Library Service to Young People	12	3
ISP427	Special Topic - Library Science	12	3

ISM204 Graduate Diploma in Commercial Computing

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Alan Tickle

Entry Requirements

An applicant seeking admission into the Graduate Diploma in Commercial Computing is required to:

- (a) hold a degree or a diploma in a discipline other than computing* from a recognised university or college of advanced education;
- (b) have completed, at a degree level, an introductory subject in computing (the equivalent of at least three hours per week for one semester).

In the case where an applicant has a diploma, the Head of School may require the applicant to undertake additional work prior to admittance to the course.

Applicants who do not meet the requirements for normal entry may present documentary evidence of qualifications, experience and other relevant information for special consideration by the Admissions Committee. Such applications will be considered by the Admissions Committee in terms of overall academic achievement. Work experience and the requirements of the course may also be considered.

Special Course Requirements

The offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject and the availability of staff. The choice of all electives is subject to the approval of the relevant Head of School.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester	1 (Autumn)		
ISP100	The Computer System	12	3
ISP101	Data Design & Processing	12	3
ISP200	Systems Analysis & Design	12	3
INP270	Data Communications	12	3
Comotor	$1(\mathbf{S}_{};)$		

Semester 2 (Spring)

Electives [minimum of 48 credit points]

* Applicants with undergraduate degrees or diplomas which include major studies in computing will not be eligible for admission into the course.



Part-Tim	e Course Structure	Credit Points	Contact Hrs/Wk
Semester	1 (Autumn)		
ISP100	The Computer System	12	3
ISP101	Data Design & Processing	12	3
Semester	2 (Spring)		
ISP200	Systems Analysis & Design Data Communications*	12	3
INP270	Data Communications*	12	3
Semester	3 (Autumn)		

Electives [minimum of 24 credit points]

Semester 4 (Spring)

Electives [minimum of 24 credit points]

Electives

Electives to the value of at least 48 credit points are to be chosen from the following, or from the offerings of the School of Computing Science or Faculty of Business.

AUTUMN S	EMESTER ELECTIVES		
ACP111	Accounting Principles I	12	3
ISP303	Programming	12	3
ISP113	Principles of Information Management	12	3
ISP381	Advanced Information Systems	12	3
ISP998	Special Topic - Commercial Computing	12	3
SPRING SE	MESTER ELECTIVES		
ACB360	Computer Security & Audit	12	3
ISP301	Advanced Database	12	3
ISP313	Expert Information Systems	12	3
ISP314	Information Systems Management	12	3
ISP400	Advanced Programming	12	3
ISP401	Computing Project	12	3
ISP383	Office Information Systems	12	3
ISP999	Special Topic - Commercial Computing	12	3

CSJ255 Bachelor of Applied Science - Computing (Honours)

Course Duration: 2 semesters full-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Dr Gerry Finn

Entry Requirements

Registrants are required to have completed QUT's Bachelor of Applied Science -Computing or its equivalent within fifteen months prior to the date of enrolment and must have attained a grade point average (GPA) of at least 5.0. Selection may be determined on an individual basis and is subject to the approval of the Head of School.

*INP270 Data Communications is a core subject which (for part-time students) may be taken in either Semester 2 or Semester 4. If not taken in Semester 2 an elective must be substituted.



The offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject and the availability of staff. The choice of all elective subjects is subject to approval by the relevant Head of School.

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
CSN100 CSN200 CSN210 INN200	Theory of Computing I Computer Security Distributed Systems Research Methodology	12 12 12 12	3 3 3 3
Semester 2	(Spring)		
CSN110 INN210 ISN100	Compiler Construction Honours Project II Information Systems I Elective [minimum of 12 credit points]	12 12 12	3 3 3
Electives			
One advance	ed elective chosen from the following	ng:	
CSN220 CSN300 CSN310 CSN320 CSN330 CSN340 CSN350 INN310 ISN300	Artificial Intelligence Theory of Computing II Parallel Processing Formal Secure Systems Natural Language Processing Compiler Laboratory Advanced Graphics I Advanced Data Communications Information Systems II	12 12 12 12 12 12 12 12 12 12 12	3 3 3 3 3 3 3 3 3 3 3

INJ232 Common First Year: Bachelor of Business -Computing/Bachelor of Applied Science - Computing

Course Duration: 2 semesters full-time, or 4 semesters part-time

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Dr Jim White

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
CSB100	Introduction to Computer Science	9	3
INB100	Practice 1 (INJ232)	12	4
ISB101	Application Systems	9	3
ISB102	Representation of Information	9	3
MAB172	Quantitative Methods IB	9	3
Semester 2	(Spring)		
ACB181	Accounting Information Systems I	9	2
CMB104	Professional Communication	9	3
CSB101	Computer Systems I	9	3
CSB110	Programming Principles	9	3
INB150	Practice 2 (INJ232)	12	4



Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
INB105	Practice 1A (INJ232)	6	2
ISB101	Application Systems	9	2 3 1
ISB102	Representation of Information	9	3
Semester 2	(Spring)		
CSB100	Introduction to Computer Science	9	3
CSB101	Computer Systems I	9	3 3 2
INB110	Practice 1B (1NJ232)	6	2
Semester 3	(Autumn)		
ACB181	Accounting Information Systems I	9	2
INB155	Practice 2A (INJ232)	6	2 2 3
MAB172	Quantitative Methods IB	9	3
Semester 4	(Spring)		
CMB104	Professional Communication	9	3
CSB110	Programming Principles	9	3 3 2
INB160	Practice 2B (INJ232)	6	2

CSJ128 Bachelor of Applied Science - Computing

Course Duration: 6 semesters full-time, or 12 semesters part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Mr Mike Roggenkamp

Entry into this course is dependent upon admission to and progression through the Common First Year (INJ232).

The offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject and the availability of staff. The choice of all elective subjects is subject to the approval of the relevant Head of School.

Full-Time	Full-Time Course Structure		Contact Hrs/Wk
Semester 1	(Autumn)		
CSB100 INB100 ISB101 ISB102 MAB172	Introduction to Computer Science Practice 1 (INJ232) Application Systems Representation of Information Quantitative Methods IB	9 12 9 9	3 4 3 3
Semester 2		,	U
ACB181 CMB104 CSB101 CSB110 INB150	Accounting Information Systems I Professional Communication Computer Systems I Programming Principles Practice 2 (INJ232)	9 9 9 9 12	2 3 3 3 4
Semester 3	(Autumn)		
CSB200 CSB201	Foundations of Computing I Computer Systems II	9 9	3 3





INB200 INB270 ISB202	Practice 3 (CSJ128) Data Communications Database & Procedural Languages	12 9 9	4 3 3
Semester 4 CSB210 CSB212 CSB213 INB250 ISB201	(Spring) Foundations of Computing II Languages & Language Processing Scientific Applications Practice 4 (CSJ128) Information Systems Analysis & Design 1	9 9 9 12 [9	3 3 4 3
Semester 5 CSB301 CSB302 INB300-1	(Autumn) Operating Systems Software Engineering Project Work Electives [minimum of 18 credit points]	9 9 12	3 3 4
Semester 6 CSB311 INB300-2	(Spring) Advanced Computer Architectures Project Work Electives [minimum of 27 credit points]	9 12	3 4
Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
INB105 ISB101 ISB102	Practice 1A (INJ232) Application Systems Representation of Information	6 9 9	2 3 3
Semester 2	(Spring)		
CSB100 CSB101 INB110	Introduction to Computer Science Computer Systems I Practice 1B (INJ232)	9 9 6	3 3 2
Semester 3	(Autumn)		
ACB181 INB155 MAB172	Accounting Information Systems I Practice 2A (INJ232) Quantitative Methods IB	9 6 9	2 2 3
Semester 4	(Spring)		
CMB104	Professional Communication	9	3
CSB110 INB160	Programming Principles Practice 2B (INJ232)	9 6	3 3 2
Semester 5	(Autumn)		
CSB201	Computer Systems II	9	3
INB205 ISB201	Practice 3A (CSJ128) Information Systems Analysis & Design	6 I 9	2 3
Semester 6	(Spring)		
CSB200	Foundations of Computing I	9	3
INB210 INB270	Practice 3B (CSJ128) Data Communication	6 9	3 2 3
Semester 7	(Autumn)		
CSB210	Foundations of Computing II	9	3 3
CSB213 INB255	Scientific Applications Practice 4A (CSJ128)	9 6	32
Semester 8 CSB212	(Spring) Languages & Language Processing	9	3

INB260 ISB202	Computing Practice 4 (CSJ128) Database & Procedural Languages	6 9	2 3
Semester 9 CSB302	(Autumn) Software Engineering Electives [minimum of 18 credit points]	9	3
Semester 1 CSB301	0 (Spring) Operating Systems Electives [minimum of 18 credit points]	9	3
Semester 1 CSB311 INB300-1	I (Autumn) Advanced Computer Architecture Project Work	9 12	3 4
Semester 1 INB300-2	2 (Spring) Project Work Elective [minimum of 9 credit points]	12	4

Electives

Electives to a total of 45 credit points are chosen from the following, or, alternatively, other approved subjects may be selected.

COMPUTING SCIENCE SUBJECTS		
CSB320 Special Studies	9	3
CSB321 Graphics	9	3
CSB323 Data Security	9	3
CSB324 Artificial Intelligence	9	3
CSB325 Expert Systems	9	3
CSB326 Systems Programming	9	3
INB280 Industrial Training Experience	12	-
INFORMATION SYSTEMS SUBJECTS		
ISB210 Information Systems Analysis & Design II	9	3
ISB302 Database Management	9	3
ISB303 Office Information Systems	9	3
OTHER SUBJECTS		
INB099 English for Academic Purposes*	9	3
MNB302 Management for Information		
Technologists	9	2
MNB091 Marketing	9	2

ISJ210 Bachelor of Business - Computing

Course Duration: 6 semesters full-time, or 12 semesters part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Ms Alison Anderson

Entry into this course is dependent upon admission to and progression through the Common First Year (INJ232).

* Subject to approval by the Dean of Faculty.





The offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject and the availability of staff. The choice of all electives is subject to the approval of the relevant Head of School.

ACBIL	Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
1	Semester 1 CSB100 INB100 ISB101 ISB102 MAB172	(Autumn) Introduction to Computer Science Practice 1 (INJ232) Application Systems Representation of Information Quantitative Methods IB	9 12 9 9 9	3 4 3 3 3
	Semester 2 ACB181 CMB104 CSB101 CSB110 INB150	(Spring) Accounting Information Systems I Professional Communication Computer Systems I Programming Principles Practice 2 (INJ232)	9 9 9 9 12	2 3 3 3 4
\ ./	Semester 3 INB201 INB270 ISB201 ISB202 MNB405	(Autumn) Practice 3 (ISJ210) Data Communications Information Systems Analysis & Design Database & Procedural Languages Management Science A	12 9 I 9 9 9	4 3 3 2
	Semester 4 ACB321 INB251 ISB210 MNB302	(Spring) Managerial Accounting Practice 4 (ISJ210) Information Systems Analysis & Design Management for Information Technolog General Elective [minimum of 9 credit p	ists 9	4 4 3 2
\checkmark	Semester 5 INB300-1 ISB301 ISB302 ISB303	(Autumn) Project Work Advanced Information Systems Database Management Office Information Systems Business Elective [minimum of 9 credit]	12 9 9 9 points]	4 3 3 3
21 V 12	Semester 6 INB300-2 ISB313 ISB314	(Spring) Project Work Expert Information Systems Information Systems Management Business Electives [minimum of 15 cred	12 9 9 it points]	4 3 3
12	Part-Time	Course Structure	Credit Points	Contact Hrs/Wk
	Semester 1 INB105 ISB101 ISB102	(Autumn) Practice 1A (INJ232) Application Systems Representation of Information	6 9 9	2 3 3
	Semester 2 CSB100 CSB101 INB110	(Spring) Introduction to Computer Science Computer Systems I Practice 1B (INJ232)	9 9 6	3 3 2

Semester 3 ACB181 INB155 MAB172	(Autumn) Accounting Information Systems I Practice 2A (INJ232) Quantitative Methods IB	9 6 9	2 2 3
Semester 4 CMB104 CSB110 INB160	(Spring) Professional Communication Programming Principles Practice 2B (INJ232)	9 9 6	3 3 2
Semester 5 INB206 ISB201 MNB405	(Autumn) Practice 3A (ISJ210) Information Systems Analysis & Design I Management Science A	6 9 9	2 3 2
Semester 6 INB211 INB270 ISB202	(Spring) Practice 3B (ISJ210) Data Communications Database & Procedural Languages	6 9 9	2 3 3
Semester 7 INB256 ISB210 MNB302	(Autumn) Practice 4A (ISJ210) Information Systems Analysis & Design II Management for Information Technologists	6 9 9	2 3 2
Semester 8 ACB321 INB261	(Spring) Managerial Accounting Practice 4B (ISJ210) General Elective [minimum of 9 credit poin	12 6 tts]	4 2
Semester 9 ISB301 ISB302	(Autumn) Advanced Information Systems Database Management Business Elective [minimum of 9 credit poi	9 9 nts]	3 3
Semester 1 ISB303 ISB313 ISB314	0 (Spring) Office Information Systems Expert Information Systems Information Systems Management	9 9 9	3 3 3
Semester 1 INB300-1	1 (Autumn) Project Work Business Elective [minimum of 9 credit poi	12 nts]	4
Semester 1 INB300-2	2 (Spring) Project Work Business Elective [minimum of 6 credit poi	12 ints]	4

Electives

Students may choose a general elective with a minimum of 9 credit points, and business electives with a minimum of 24 points. Business electives may be chosen from any subject in degree courses offered by the Faculty of Business subject to prerequisites and formal approval. Completion of the elective INB280 Industrial Training Experience would replace one business elective. General electives may be chosen from any subject in any QUT degree course subject to prerequisites and formal approval. Recommended electives are shown below:

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Full-Time Course Structure		Credit Points	Contact Hrs/Wk
ACB230	Financial Management I	12	4



	ACB360	Computer Security & Audit	12	3
	INB099	English for Academic Purposes*	9	3
	INB280	Industrial Training Experience	12	~
	ISB219	Advanced COBOL	9	3
	ISB998	Special Topic - Business Computing	9	3
	, ISB999	Special Topic - Business Computing	9	3
\checkmark	′ MNB091	Marketing	9	2
	MNB151	Microeconomic Analysis	12	3
	MNB181	Australian National Government B	12	3
	MNB203	Management II	12	3

ISJ243 Bachelor of Business - Information Management

Course Duration: 6 semesters full-time, 12 semesters part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Dr Jeanne Owen

The offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject and the availability of staff. The choice of all electives is subject to the approval of the relevant Head of School.

Full-Time	Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
CSB100 INB100 ISB101 ISB102 ISB113	Introduction to Computer Science Practice 1 (INI232) Application Systems Representation of Information Principles of Information Management	9 12 9 9	3 4 3 3 3
Semester 2	(Spring)		
ACB181 CMB104 CSB101 CSB110 INB150	Accounting Information Systems I Professional Communication Computer Systems I Programming Principles Practice 2 (INJ232)	9 9 9 9 12	2 3 3 3 4
Semester 3	(Autumn)		
INB202 ISB201 ISB203 ISB215 MNB302	Practice 3 (ISJ243) Information Systems Analysis & Design 2 Advanced Database External Sources of Information Management for Information Technologies	9 9	4 3 3 3 2
Semester 4	(Spring)		
INB252 INB270 ISB214 LWS004 MNB413	Practice 4 (ISJ243) Data Communications The Information Resource Information Managers & the Law Applied Cognitive Psychology	12 9 9 9 9	4 3 3 3 2
Semester 5	(Autumn)		
ISB216	Political & Social Aspects of Information Technology	9	3
* Subject to	approval by the Deep of Feaulty		

* Subject to approval by the Dean of Faculty.



ISB301	Advanced Information Systems	9	3
ISB303	Office Information Systems	9	3
MNB091		9	2
	Marketing Economics of Information	9	$\frac{1}{2}$
MNB591	Economics of Information	9	2
Semester 6	(Spring)		
		10	4
ISB305	Project	12	4
DIDODO	OR	10	
INB280	Industrial Training Experience	12	-
ISB314	Information Systems Management	9	3
ISB316	Information Support Systems	9	3
ISB317	Special Topic - Information Management	9	3
	OR I DI VI E LI CIO VI	• • •	
100210	General Elective [minimum of 12 credit po	~ "	2
ISB318	Strategic Information Management	9	3
	a	~	~
Part-Time		Credit	Contact
		Points	Hrs/Wk
~ 4			
Semester 1	(Autumn)		
INB105	Practice 1A (INJ232)	6	2
ISB102	Representation of Information	9	2 3
ISB1 13	Principles of Information Management	9	3
Semester 2	(Spring)		
CSB100	Introduction to Computer Science	9	3
CSB101	Computer Systems I	9	3 3
INB110	Practice 1B (INJ232)	6	$\tilde{2}$
IND I IO	Tractice TD (III)232)	0	2
Semester 3	(Autumn)		
		0	2
ACB181	Accounting Information Systems I	9	2
INB155	Practice 2Å (INJ232)	6	2 3
ISB101	Application Systems	9	3
Semester 4	(Spring)		
		~	-
CMB104	Professional Communication	9	3
CSB110	Programming Principles	9	3
INB160	Practice 2B (INJ232)	6	2
C =			
Semester 5	-		
INB207	Practice 3A (ISJ243)	6	2
ISB215	External Sources of Information	9	3
MNB302	Management for Information Technologis	ts 9	2
Semester 6			
INB212	Practice 3B (ISJ243)	6	2
ISB214	The Information Resource	9	3
MNB413	Applied Cognitive Psychology	9	2
~ -			
Semester 7	(Autumn)		
INB257	Practice 4A (ISJ243)	6	2
ISB201	Information Systems Analysis & Design I	9	2 3
ISB203	Advanced Database	9	3
Semester 8	(Spring)		
INB262	Practice 4B (ISJ243)	6	2
INB270	Data Communications	9	3
LWS004	Information Managers & the Law	9	2 3 3
2001		-	~
Semester 9	(Autumn)		
ISB216	Political & Social Aspects of		
100210	Information Technology	9	3
	monution reentology	,	J

INFORMATION TECHNOLOGY

ISB301 MNB591	Advanced Information Systems Economics of Information	9 9	3 3
Semester 10	(Spring)		
ISB314	Information Systems Management	9	3
ISB316	Information Support Systems	9	3
ISB317	Special Topic - Information Management OR	9	3
	General Elective [minimum of 12 credit po	ints]	
Semester 1	l (Autumn)		
ISB303	Office Information Systems	9	3
MNB091	Marketing	9	2
Semester 12	2 (Spring)		
ISB305	Project	12	4
	i lojeet	3	•
	OR		•
INB280 ISB318		12	-3

Electives

General electives to the value of at least 12 credit points may be chosen from any subject in any QUT degree course subject to prerequisites and formal approval. One special offering which can be taken subject to the approval of the Dean of the Faculty is:

		Credit Points	Contact Hrs/Wk
INB099	English for Academic Purposes	9	3

Information for all Information Technology Students

This information is relevant to all Faculty of Information courses.

- 1. To qualify for graduation, students admitted to courses offered by the Faculty of Information Technology prior to 1990 should:
 - (a) obtain a grade of at least 3 in all subjects specified for the award; and
 - (b) obtain a Graduation Index of at least 3.9 (Graduation Index calculated as for Grade Point Average but counting only the best results for a repeated* subject and ignoring all subjects for which the best result is a 2 or a 1).

Students who commence study towards a QUT award from Autumn Semester, 1990 (inclusive) are covered by Section 17 of the Policies, Procedures, Rules and Regulations for Students.

- 2. Students undertaking courses in the Faculty of Information Technology should acquaint themselves with Faculty policy on assessment, deferred examinations, and plagiarism in programming assignments.
- 3. Industrial Training Experience (Elective Subject INB280)

Aims

The purpose of the industrial training period is to provide students with experience in a working environment prior to the study of the more advanced aspects of the course in which they are enrolled. This experience:

* A student may repeat any subject in order to upgrade the result and hence increase the Graduation Index.



- (a) enables students to place concepts learnt in the first two years in context; and
- (b) enhances the benefits obtained from first year subjects.

The industrial training period necessarily involves re-orientation 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

To qualify for the Industrial Training option, students must have enrolled in the fourth semester (or equivalent) of their undergraduate degree, and either passed all subjects or attained an overall grade point average of 4.5 in the first three semesters (or equivalent). The option to review a student's grade point average at the end of the fourth semester is available to employers.

Features

The Industrial Training option is offered under the guise of the subject INB280 and has the following features:

- (a) 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.
- (b) An academic member of staff normally visits the student once per semester and discusses progress with the student and a representative of the employer.
- (c) At the end of the twelve-month training period the student will write a report on the total training period, submit it to the employer for endorsement and comment, and then hand it to the course co-ordinator for assessment. The report should highlight different aspects of the period, and include comments and recommendations.
- (d) A pass in this module will be granted on the basis of:
 - □ satisfactory completion of an approved period of industrial training; and
 - □ submission of a satisfactory report on the year's experience. The report must be submitted not later than the commencement of the semester following the training period.
- (e) A salary is paid to the student by the employer during this training period.
- (f) The Faculty carefully monitors all industrial training 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.
- (g) Part-time students may apply for credit towards INB280 on the basis of their employment. Credit is granted on the basis of a two year period of full-time employment in an approved environment and compliance with a number of administrative requirements:
 - □ a statement from the course co-ordinator that the arrangements have been discussed with the employer and that the proposed period of employment will provide appropriate work experience;
 - $\hfill\square$ two annual visits by a member of academic staff to the student and employer; and
 - \Box a satisfactory report, written by the student, endorsed by the employer and submitted no later than the commencement of the semester following the training period.





(h) It is intended that full-time students on the scheme will devote their prime efforts to the industrial training module and will not, therefore, be permitted to register for more than one other subject per semester during the training year.

Recognition by Professional Bodies

Australian Computer Society

The following courses are accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society:

Bachelor of Applied Science - Computing Bachelor of Business - Computing Bachelor of Applied Science - Surveying/Bachelor of Business - Information Management Bachelor of Business - Computing/Bachelor of Laws Bachelor of Engineering/Bachelor of Applied Science - Electronics and Computing Graduate Diploma in Commercial Computing Graduate Diploma in Computing Science.

Library Association of Australia

Graduates of the Graduate Diploma in Library Science are eligible to become 'Associates' (i.e., professional members) of the Library Association of Australia.

Institute of Engineers, Australia

The Institute of Engineers, Australia has granted provisional recognition to the Bachelor of Engineering/Bachelor of Applied Science - Electronics and Computing. Accreditation for full recognition is due in 1991, subsequent to the initial graduations from the course.

Queensland Surveyor's Board

The Bachelor of Applied Science - Surveying/Bachelor of Business - Information Management meets the requirements of the Queensland Surveyor's Board for registration as a surveyor, but not for licensing.

General Information

Telephone Numbers

Office of the Dean:	223 2782
Information Security Research Centre:	223 2846
Technical Services Section:	223 2533
A Block Laboratory:	223 2137
M Block Laboratory:	223 2146
School of Computing Science:	223 2132
School of Information Systems:	223 2639

Staff

Dean: Professor D.Longley, BSc(Physics)(Hons)(Manch), MSc(Tech)(UMIST),PhD(Leic), CEng, FIEE, FAIM Faculty Administration Officer: P.D. Moller, BSocWk(Qld) Secretary: M. Sands



Technical Services Section

Technical Services Manager: G. Low, BAppSc, ADipA(Mitchell), GradDipManagement(CIAE), MACS Technologist: T. Roggenkamp, BSc(Qld) Laboratory Manager: P. Anderson Senior Computer Systems Officer: M. Walmsley

Information Security Research Centre

Director: W. Caelli, BSc(Hons)(Newcastle), PhD(ANU), FACS, MIEEE, MACM Secretary: A. Hamburger

School of Computing Science

Head: Professor K.J. Gough, MSc PhD(Well), FNZEI, MIEEE, MACM, MACS Academic Support Officer: C. Murphy, BA(Qld) Secretary: M. Crimmin, AssocDipH&CServ(QAC), AssocDipSecStudies(BCAE) Senior Lecturers: P.T.J. Cattell, DipEd BSc BEd DipCompSc(Old), MSc(Essex), MACS G.M. Mohay, BSc(Hons)(WA), PhD(Monash), MACS, MACM, AIEEE J. Sitte, PhD(Uppsala), APS, INNS Lecturers: K.F. Anderson, BSc(Hons)(S'clyde), DipEd(Dun), DipInfProc(Old), MACS, MACM H.A. Bergen, BSc(Hons)(Massey), PhD(NSW), DipCompSc(Qld) R.J. Christie, BA DipCompSc(NE), DipTeach(NewcastleCAE) J.D. Day, BE(Hons)(Syd), GradDipCompSc MEngSc PhD(Qld), MACS, MACM L.J. Dunn, BA(UO), MA(UWA), MLAS, MACM J. Holford, DipEd(Old), BAppSc(Physics) GradDipCompSc(QIT), CEG G.D. Finn, BSc(Hons) PhD(Qld), MS(Hawaii) J.R. Hynd, BSc(Hons)(Qld), PhD(Syd), MACS, MACM G. Low, BAppSc, ADipA(Mitchell), GradDipManagement(CIAE), MACS M.G. Roggenkamp, BEd(James Cook), DipCompSc MScSt(Old), MACS, MACM, AIEEE A. Rosel, BEng(Rheinland), IEAust Tutors: A. O'Hagan, BSc(Qld), MACS; A. Rhodes, BAppSc(QIT); R. Thomas, BSc(Trinity Western), APDA School of Information Systems Acting Head: Associate Professor B.A. Underwood, MS(MIS)(TexasTech), MBA(Qld), BBus, MACS Academic Support Officer: M. McDowell, BA(Old), BSc(SocSc)(Hons) (Bristol) Secretary: G. Hughes Principal Lecturer: J.C. Owen, BA(Hons)(Lond), MA, PhD(Qld), AdvCertLibSci, MLS(Pitts), ALIA Senior Lecturers:

A. Anderson, BSc MInfSys(Qld), MACS

B.F. Carroll, BA(Carleton), MLS(W Ontario)

R.W. Smyth, BA(Qld), MSc(Aston), DipEd DipInfProc(Qld), MACS, AISA

A.B. Tickle, BSc DipCompSci MSc(Qld), GradDipManagement(CIAE), MACS *Lecturers:*

P. Bancroft, BSc MScSt(Qld), GradDipComComp(QIT)

D. Edmond, BSc(Hons)(Edin)

S. Geva, BSc(Hebrew), GradDipComComp(QIT), MAppSc(QUT)





J.S. Goodell, BA(Lafayette Coll), MS AdvMLS PhD(Florida State), AAIM, ARMA K. Ling, BSc(Melb), GradDipDP (Caulfield), GMIEA, MACS

J. Reye, BSc(Hons) (Qld), MIEE, MACS, MACM

M. Sandow-Quirk, BA(Hons)(Melb), MLib(Monash), GradDipLibSc(RMIT), ALIA C. Tilley, BA(Hons) MA(Qld), DipContEd(NE), GradDipLibSc(QIT), AILA, AAIM, IIMC

J.J. White, BA MA MLS(W Ontario), PhD(Qld), MACS C.S. Willie, BA(Utah), MBA(Br Col), AUUG, BRISBUG

Prizes and Awards

Australian Computer Society Incorporated Prizes

Awarded annually to the most outstanding graduate in the Bachelor of Applied Science - Computing; and the most outstanding graduate in the Bachelor of Business - Computing.

BHA Computer Prize

Awarded annually to the Bachelor of Applied Science - Computing student with the most outstanding performance in the subjects Computer Systems II and Advanced Computer Architecture.

Britannica Reference Award

Awarded to the student completing the Graduate Diploma in Library Science who takes the subjects Information Users and Services I and Information Users and Services II for the first time, and achieves the highest aggregate marks in those subjects.

Data #3 Professional Services Pty Ltd Prize

Awarded to the most outstanding student in the Bachelor of Business - Computing.

DMR Datec Prizes

Awarded annually to the most outstanding graduate from the Bachelor of Applied Science - Computing and Bachelor of Business - Computing; and the student enrolled in either the Bachelor of Applied Science - Computing or Bachelor of Business - Computing demonstrating the greatest proficiency in the subject Project Work.

IBM Prizes of Excellence

Donated annually by IBM Australia Ltd and awarded for excellence shown by a student of the Graduate Diploma in Commercial Computing course.

Library Association of Australia, Queensland Branch Prize

Awarded to the part-time student who completes the Graduate Diploma in Library Science within the time period appropriate for normal progression, and achieves the highest aggregate marks in the course.

Library Board of Queensland Merit Award

Awarded to the full-time student who completes the Graduate Diploma in Library Science within the time period appropriate for normal progression, and achieves the highest aggregate marks in the course.

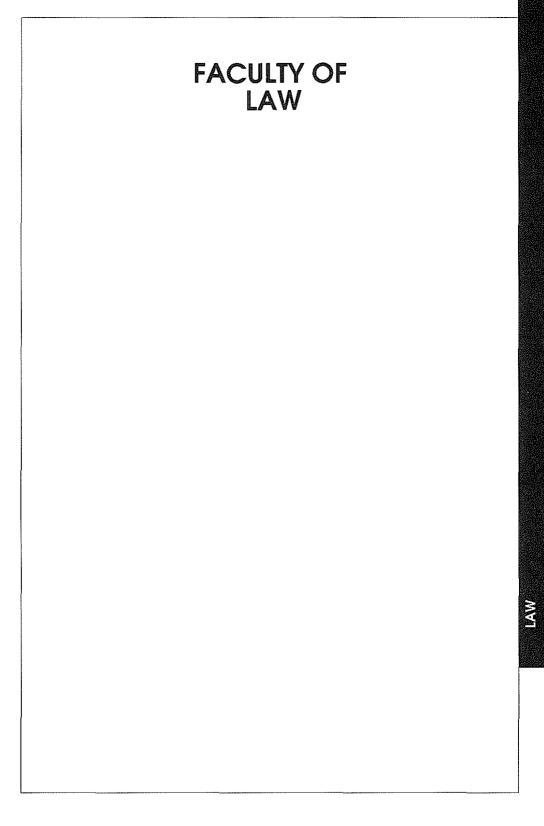
NCR Australia Pty Ltd Prize

Awarded to the Bachelor of Business student who takes the subject Information Systems Management for the first time and obtains the highest pass in the subject at the semester examinations.

Queensland Online Users Group/Orbit Prizes

Awarded to the two students who perform best in the On-line Information Retrieval subject within the Graduate Diploma in Library Science.







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FACULTY OF LAW

Courses Offered

- LWN234 Master of Laws
- LWM196 Graduate Diploma in Legal Practice
- IFJ223 Bachelor of Business Accountancy/Bachelor of Laws (see page 26)
- IFJ235 Bachelor of Business Computing/Bachelor of Laws (see page 27)
- LWJ171 Bachelor of Laws
- LWJ238 Bachelor of Business Accounting (DDIAE)/Bachelor of Laws
- LWJ239 Bachelor of Arts (GU)/Bachelor of Laws

The Faculty

The Faculty of Law aims to provide courses appropriate to the needs of the legal profession, while encompassing subjects to broaden the experience of law students, and providing as practical an education as possible. Consequently, graduates from the QUT Faculty of Law find employment is readily available within the legal profession and associated fields.

A significant feature of QUT law courses is the option of combined degree courses, some of which are offered in conjunction with other tertiary institutions – Griffith University and the Darling Downs Institute of Advanced Education, for example.

The LLB degree, the combined degrees and the Graduate Diploma in Legal Practice are registered nationally by accreditation with the Australian Council on Tertiary Awards.

Both the LLB degree and the combined degree courses satisfy the academic requirements for admission to practice as a barrister or as a solicitor in Queensland. The combined Accountancy/Law course also meets the academic requirements of the professional accounting bodies. The Graduate Diploma in Legal Practice is a recognised alternative to articles of clerkship to a solicitor.

In addition to producing graduates who meet the needs of the legal profession, and lawyers with broad and practical experience, other major objectives of the Faculty of Law are:

- □ To avoid emphasising the mere acquisition of factual knowledge; to seek also to show the underlying concepts and principles of a subject.
- □ To encourage students to develop the facility for independent thought and critical analysis, and to be aware of the need for any change in the Law.
- □ To train students to apply the knowledge gained from their course in solving real-life problems.



- □ To induce in students an awareness of the moral and legal responsibilities of professional practice; a desire for continuing education.
- □ To undertake research and consultation to promote the professional and pedagogical development of staff members.
- □ To assist in areas of the community where a contribution can be made.
- □ To attain and maintain essential Australasian Universities Law Schools Association library standards in the Law Library.

Course Structures

LWN234 Master of Laws

Course Duration: 2 semesters full-time, 6 semesters part-time

Total Credit Points: 100

Standard Credit Points/Full-Time Semester: 50

Entry Requirements

- 1. To be eligible for a place in the quota for the Master of Laws by Coursework program, an applicant shall:
 - (a) have completed the requirements for the award of the degree of Bachelor of Laws with first- or second-class honours of the Queensland University of Technology or another approved tertiary institution, or
 - (b) have completed the requirements for the award of the degree of Bachelor of Laws of the Queensland University of Technology or another approved tertiary institution, or
 - (c) have a professional qualification in Law and at least three years' professional legal experience,

and shall have satisfied such other requirements as the Law Academic Board may direct.

2. An applicant seeking entry under 1 (b) or (c) above shall be required, normally, to undertake a prescribed Masters qualifying examination. An applicant who has been required to undertake a Masters qualifying examination but who has not been admitted as a Master of Laws by Coursework student shall be classified as a Masters qualifying examination. A Masters qualifying examination student until he or she has passed the prescribed examination. A Masters qualifying examination student who, without the permission of the Dean of the Faculty of Law, fails to undertake the examination on or by the prescribed date, or who undertakes the examination and fails, shall not be permitted to undertake the examination on a second occasion save in exceptional circumstances.

The LLM Committee normally requires an applicant seeking entry under 1 (b) or (c) to submit a paper of not less than 10,000 and not more than 15,000 words on a topic specified by the Committee. In an exceptional case, an applicant may be required to enrol in one or two LLB subjects specified by the Committee and to obtain a grade of at least five in such subject or subjects.

Course Structure

(a) The course structure comprises four whole-year subjects and a minor thesis.



- (b) The subjects from which the four whole-year subjects shall be chosen are, subject to availability:
- LWN001 Advanced Company Law
- LWN002 Advanced Constitutional Law
- LWN003 Advanced Family Law
- LWN004 Advanced Law of Trusts
- LWN005 Trade Practices & Consumer Protection LWN006 Business Planning: Taxation Constraints
- LWN006 Business Planning: Taxatio LWN007 Commercial Arbitration
- LWN008 Commercial Leases
- LWN009 Law Relating to Building & Engineering Contracts
- LWN010 Legislation
- LWN011 Litigation
- LWN012 Pacific Legal System
- LWN013 Commercial Remedies
- LWN014 Resources Development Law
- LWN015 The Criminal Justice System
- LWN016 Tribunals & Enquiries.

(c) The code number of the minor thesis shall be LWN100.

(d) Each subject, including the minor thesis, is 20 credit points.

Subjects Offered In 1990

It is intended that the following subjects will be offered in 1990:

LWN001	Advanced Company Law
LWN005	Trade Practices & Consumer Protection
LWN007	Commercial Arbitration
LWN008	Commercial Leases
LWN011	Litigation
LWN013	Commercial Remedies.

LWN100 Minor Thesis

The minor thesis shall be not less than 20,000 and not more than 30,000 words in length, and shall be prepared in accordance with the paper "Presentation of Legal Theses" by E.M. Campbell, copies of which are held in the Law Library. It shall include a title page, table of contents and bibliography.

A student shall submit a topic for the minor thesis to the Dean of the Faculty of Law not later than the end of February in the year in which the student is enrolled for the minor thesis. At the same time, the student shall submit the name of a supervisor willing to supervise the thesis. If the topic and the supervisor are approved, the student shall pursue his or her research for the thesis under the direction of the supervisor.

The student shall submit four clear typed copies of his or her thesis to the Dean of the Faculty of Law not later than the end of October in the year in which the student is enrolled for the minor thesis. On submission of the thesis, the student shall furnish a signed statement that the thesis is his or her work alone, except where due acknowledgement is made in the text, and does not include material which has been previously submitted or accepted for a degree or diploma. The thesis shall be referred to two examiners, at least one of whom shall be an external examiner. Each examiner shall report as to whether in his or her opinion, the thesis is of sufficient merit and is one that is likely to be accepted for publication by a learned journal. Each examiner shall also recommend that the thesis

- (a) be accepted; or
- (b) not be accepted; or

(c) be accepted subject to amendments to be made to the satisfaction of the supervisor,



and, in any event, shall recommend that the thesis be awarded a grade of fail or one of the pass grades. Following acceptance of the thesis, one copy shall be bound in an approved form at the student's expense and handed to the Law Librarian for deposit in the QUT Faculty of Law Library. Any corrections resulting from the examiners' assessment shall be made prior to binding, and by re-typing if they would otherwise be obtrusive.

LWM196 Graduate Diploma in Legal Practice

Course Duration

The course is a full-time course beginning in February each year and lasting one academic year, i.e. at least 32 teaching weeks, divided into two semesters which will not normally coincide with the University's normal semesters. There will be a two-week break between the semesters and a one-week break in second semester.

Standard Credit Points/Full-Time Semester: 48

Entry Requirements

- (a) To be eligible for a place in the quota for the Legal Practice course, an applicant must hold, or be entitled to be admitted to, an approved Law degree.
- (b) An applicant who does not satisfy the above requirements may apply for special consideration.
- (c) If there are more eligible applicants than places in the quota, the persons to whom places are offered will, after an interview with the Dean of the Faculty of Law or his nominee, be determined on merit, taking into account the results obtained in their Law degrees, and in the case of equal academic merit any other relevant information, and preference will be given to applicants who reside in Queensland.

Content

The broad areas of practice dealt with in the course and the number of hours devoted to each are:

Accounting and Office Management (44.75) Administration of Estates (84.25) Civil Litigation (including Advocacy) (175.50) Commercial Law Practice (82.25) Company Practice (60) Conveyancing (including Searches and Stamping) (201.00) Creditors' Remedies and Bankruptcy (37.25) Criminal Practice (including Advocacy) (41.50) Family Law Practice (125.25) Leases (including Commercial Leases and Ejectment Proceedings) (27.75) Securities (81.25) and Tax Planning (including Estate Planning) (25).

The following matters are also dealt with:

Industrial Relations (including Workers' Compensation) (13.5) Insurance (7) Legal Aid (6) Legal Drafting (46.75) Legal Interviewing and Communication (23.5)



Legal Profession and Professional Conduct (17.75) Specialised Services (Accountants, Stock Brokers, Bankers, etc.) (3.5) Town Planning (12.5) and Trade Practices and Consumer Protection (12.5).

Attendance

- (a) Subject to (b) below, a student must, throughout the course, attend at the QUT, or wherever the course is being conducted at any given time, from 9 am to 5 pm, and at such other times as may be specified on each weekday which is not a public holiday in Queensland and which does not fall within a course recess, and must participate in all the appropriate course activities.
- (b) A student who is absent from the course for, in the aggregate, more than seven days will be refused a Certificate of Satisfactory Completion of the course unless he or she shows cause to the Dean of the Faculty of Law why such a Certificate should be granted. Such cause might be the circumstance that the student has completed in his or her own time to the satisfaction of the senior full-time instructor of the Legal Practice Course all work missed during the period/s of absence.

Assessment

Throughout the course there will be continuous assessment of the performance of each student. This will be based on attendance, conduct, application and, most of all, proficiency.

A student whose performance is deemed to be unsatisfactory as regards any area of practice or any part of such an area must repeat such part of the course as he/she is directed to repeat.

Other Requirements

The Dean of the Faculty of Law may require students to comply with such other regulations relating to the Legal Practice Course as may be notified from time to time.

Certificate of Satisfactory Completion, Graduate Diploma in Legal Practice

Subject to the rules set out above, each student who satisfactorily participates in and completes each part of the course and who complies with all the requirements relating to the course will receive a Certificate of Satisfactory Completion of the Legal Practice Course and will be awarded a Graduate Diploma in Legal Practice.

LWJ171 Bachelor of Laws

Course Duration: 8 semesters full-time, or 12 semesters part-time

Total Credit Points: 402

Standard Credit Points/Full-Time Semester: 50.25

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
LWB101	Introduction to Law	12	3
LWB102	Law of Contract	12	3
LWB103	Torts	12	3
LWB104	Legal Research & Writing I 🛛 –	4	1





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Semester 2	(Spring)		
LWB101	Introduction to Law	12	3
LWB102	Law of Contract	12	3 3
LWB103	Torts	12 - ۷ س	3 = NEE
LWB104 MNB181	Legal Research & Writing I — Australian National Government E	4	1 = NEE. 3 = NEE.
101110101	Australian National Official L) 12	J≈ NLC.
Semester 3	(Autumn)		
LWB201	Land Law	12	3
LWB202	Criminal Law & Procedure	12	3
LWB203 LWB301	Constitutional Law Equity	12 12	3
B11 B301	Equity	12	J
Semester 4	(Spring)		
LWB201	Land Law	12	3
LWB202	Criminal Law & Procedure	12	3
LWB203 LWB301	Constitutional Law Equity	12 12	3 3
Endou	Equity	12	5
Semester 5	(Autumn)		
LWB303	Commercial Law	12	3
LWB309 LWB311	Succession Administrative Law	8	2 3 - wLE
LWDJII	Two Law elective subjects	12 16-24	4-6
		10 21	40
Semester 6	(Spring)		
ACB382	Introductory Accounting	12	3- ACB 113
LWB303 LWB311	Commercial Law	12	3 3=WLE
LWDJII	Administrative Law Two Law elective subjects	12 16-24	4-6
	Two Eaw elective subjects	10-24	4-0
Semester 7	(Autumn)		
LWB401	Company Law & Partnership	12	3
LWB402	Evidence	12	3
LWB403 LWB404	Taxation Law Civil Procedure	12 8	3
LWB414	Drafting & Legal Transactions	8	3 3 2 ~ LWB309
LWB415	Legal Research & Writing II	4	Ī
Semester 8	(Spring)		
LWB401	Company Law & Partnership	12	3
LWB403	Taxation Law	12	3 3 2
LWB404	Civil Procedure	8	2
LWB409 LWB414	Professional Conduct (5 weeks)	2	2 7 = LWB 308
LWB414	Drafting & Legal Transactions Legal Research & Writing II	8 4	1
20202	One Law elective subject	8-12	2-3
Law Electi	-		
LWB302	Family Law	12	3
LWB305	Jurisprudence	12	3
LWB306	Local Government Law	8	2
LWB307	Insolvency Law	8	2
LWB308 LWB312	Industrial Law Land Contracts*	8 12	2
LWB405	Solicitors' Trust Accounts	8	3 2 2 3 2 3 2 3
LWB406	Public International Law	12	
LWB407	Conflict of Laws	12	3

* LWB312 Land Contracts shall not be studied before Land Law.



The Law elective subjects will be offered as follows:

Autumn Semester

DAY CLASSES Solicitor's Trust Accounts Local Government Law Insolvency Law Industrial Law Jurisprudence Research & Writing Project

Spring Semester

DAY CLASSES Family Law Land Contracts Public International Law Trade Practices Law Conflict of Laws Special Law Elective Subject Research & Writing Project EVENING CLASSES Family Law Land Contracts Public International Law Trade Practices Law Conflict of Laws Special Law Elective Subject Research & Writing Project

EVENING CLASSES Solicitor's Trust Accounts Local Government Law Insolvency Law Industrial Law Jurisprudence Research & Writing Project

Solicitors' Board Requirements

Students who wish to satisfy the academic requirements of the Solicitors' Board must include the following subjects in their courses: LWB302 Family Law, LWB312 Land Contracts and LWB405 Solicitors' Trust Accounts.

Barristers' Board Requirements

Students who wish to satisfy the academic requirements of the Barristers' Board must include the following subjects in their courses: LWB407 Conflict of Laws and LWB305 Jurisprudence.

Students also should refer to the Barristers' Admission Rules (Rule 16) regarding the Law elective subjects which are acceptable. Local Government Law is not an acceptable subject under Rule 16.

Honours

The LLB degree may be awarded with Honours: First Class Honours; Second Class Honours, Division A; and Second Class Honours, Division B. Candidates for the degree with Honours must fulfil the requirements for the pass degree and achieve such standards of proficiency in all the subjects of the course as may from time to time be determined by the Academic Board and approved by the Academic Committee. The Faculty's policy normally provides that a student with an average mark of 75% or more will qualify for the award of First Class Honours; a student with an average mark of 70-74.99% will qualify for the award of Second Class Honours, Division A; and a student with an average mark of 65-69.99% will qualify for the award of Second Class Honours.

Special Full-Time Course Structure for Graduates

A graduate of any degree course approved by the Dean of the Faculty of Law is eligible to complete the Bachelor of Laws course in three years (six semesters) of full-time study.

A graduate of any degree course approved by the Dean may be deemed to have passed in two non-Law subjects - Australian National Government B and Introductory Accounting - and two Law elective subjects, and may be granted credit for such subjects.





		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
LWB101	Introduction to Law	12	3
LWB102	Law of Contract	12	3
LWB103	Torts	12	3 3 3 1
LWB104	Legal Research & Writing I*	4	
LWB202	Criminal Law & Procedure	12	3
Semester 2	(Spring)		
LWB101	Introduction to Law	12	3
LWB102	Law of Contract	12	3 3 3
LWB103	Torts	12	3
LWB104	Legal Research & Writing I*	4 12	1
LWB202	Criminal Law & Procedure	12	3
Semester 3			
LWB201	Land Law	12	3 3 3 3 3 3
LWB203	Constitutional Law	12	3
LWB301 LWB303	Equity Commercial Law	12	3
LWB311	Administrative Law - Pour NER	12	3
	1990	hrads 2	2
Semester 4			
LWB201	Land Law	12	3 3 3 3 3
LWB203	Constitutional Law	12	3
LWB301	Equity	12 12	3
LWB303 LWB311	Commercial Law Administrative Law $- \wp_{0,\omega}' \tau$ NE		2
	1990 6		2
Semester 5	(Autumn)		
LWB309	Succession	8	2 3 3 2 2
LWB401 LWB402	Company Law & Partnership Evidence	12 12	3
LWB402 LWB403	Taxation Law	12	2
LWB404	Civil Procedure	8	2
LWB414	Drafting & Legal Transactions 🗧 🤅	so r 8	$\overline{\tilde{2}}$
LWB415	Legal Research & Writing II*	4	1
	One Law elective subject	8-12	2-3
Semester 6	(Spring)		
LWB401	Company Law & Partnership	12	3
LWB403	Taxation Law	12	3 3 2 2
LWB404	Civil Procedure	8	2
LWB409	Professional Conduct (5 weeks)	2	2
LWB414	Drafting & Legal Transactions - 3	°07 8	2
LWB415	Legal Research & Writing II*	4 16-24	1 4-6
	Two Law elective subjects	10-24	4-0

Special Part-Time Course Structure for Graduates

A graduate of any degree course approved by the Dean of the Faculty of Law is eligible to complete the Bachelor of Laws course in five years (10 semesters) of part-time study.

A graduate of any degree course approved by the Dean may be deemed to have passed in two non-Law subjects – Australian National Government B and Introductory Accounting – and two Law elective subjects, and may be granted credit for such subjects.

* Subjects LWB104 Legal Research and Writing I and LWB415 Legal Research and Writing II may be studied as optional units – they are not required subjects of the LLB course for graduates.

		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
LWB101 LWB102 LWB103 LWB104	Introduction to Law Law of Contract Torts Legal Research & Writing I*	12 12 12 4	3 3 3 1
Semester 2	(Spring)		
LWB101 LWB102 LWB103 LWB104	Introduction to Law Law of Contract Torts Legal Research & Writing I*	12 12 12 4	3 3 3 1
Semester 3	(Autumn)		
LWB201 LWB202 LWB301	Land Law Criminal Law & Procedure Equity	12 12 12	3 3 3
Semester 4	(Spring)		
LWB201 LWB202 LWB301	Land Law Criminal Law & Procedure Equity	12 12 12	3 3 3
Semester 5	(Autumn)		
LWB203 LWB303 LWB311	Constitutional Law Commercial Law Administrative Law	12 12 12	3 3 3
Semester 6	(Spring)		
LWB203 LWB303 LWB311	Constitutional Law Commercial Law Administrative Law	12 12 12	3 3 3
Semester 7	(Autumn)		
LWB401 LWB403	Company Law & Partnership Taxation Law One Law elective subject	12 12 8-12	3 3 2-3
Semester 8	(Spring)		
LWB401 LWB403 LWB309	Company Law & Partnership Taxation Law Succession One Law elective subject	12 12 8 8-12	3 3 2 2-3
Semester 9	(Autumn)		
	Civil Procedure Drafting & Legal Transactions Legal Research & Writing II* One Law elective subject	8 8 4 8-12	2 2 1 2-3
Semester 1	0 (Spring)		
LWB402 LWB404 LWB409 LWB414 LWB415	Evidence Civil Procedure Professional Conduct (5 weeks) Drafting & Legal Transactions Legal Research & Writing II*	12 8 2 8 4	3 2 2 2 1

* Subjects LWB104 Legal Research and Writing I and LWB415 Legal Research and Writing II may be studied as optional units – they are not required subjects of the LLB course for graduates.

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LWJ238 Bachelor of Business – Accounting (DDIAE)/ Bachelor of Laws

Course Duration: 10 semesters full-time

Standard Credit Points/Full-Time Semester: 50.25

Full-Time	Course Structure	QUT Code for DDIAE subjects	Credit Points	Contact Hrs/Wk
Semester 1	· ,			
51002 51004	Introduction to Accounting Management & Organisational	EXL020		4
51008 LWB101 LWB104	Behaviour Business Economics Introduction to Law Legal Research &	EXL011 EXL008	12	4 4 3
	Writing I		4	1
Semester 2		E14 049		4
51103 75001	Financial Accounting Computing	EXL048		4 4
75002 LWB101	Data Analysis Introduction to Law		12	4 3
LWB104	Legal Research & Writing I		4	1
Semester 3				
51129 51115	Market Analysis Company Accounting			4 4
LWB102 LWB103	Law of Contract		12 12	3 3
Semester 4			12	5
51111	Financial Management			4
90501 LWB102	Communications Law of Contract		12	4 3
LWB103	Torts		12	3
Semester 5				
51112 51113	Business Finance Management Accounting	EXL065		4 4
LWB202 LWB203	Criminal Law & Procedure Constitutional Law		12 12	3
Semester 6			12	5
51116	Accounting Theory			4
90502 LWB202	Australia, Asia & the Pacific Criminal Law & Procedure		12	4 3
LWB203	Constitutional Law		12	4
Semester 7	· ·			
LWB201 LWB301	Land Law Equity		12 12	3 3 3 3
LWB311 LWB303	Administrative Law Commercial Law		12 12	3
2	One Law Elective Subject		8-12	2-3
Semester 8				
LWB201 LWB301	Land Law Equity		12 12	3 3



LWB311 LWB303	Administrative Law Commercial Law One Law Elective Subject	12 12 8-12	3 3 2-3
Semester 9	(Autumn)		
LWB401 LWB403 LWB404 LWB414 LWB415 LWB402 LWB309	Company Law & Partnership Taxation Law Civil Procedure Drafting & Legal Transactions Legal Research & Writing II Evidence Succession	12 12 8 8 4 12 8	3 3 2 2 1 3 2
Semester 1	0 (Spring)		
LWB401 LWB403 LWB404 LWB414 LWB415 LWB409	Company Law & Partnership Taxation Law Civil Procedure Drafting & Legal Transactions Legal Research & Writing II Professional Conduct (5 weeks) One Law Elective Subject	12 12 8 8 4 2 8-12	3 2 2 1 2-3

LWJ239 Bachelor of Arts (GU)/Bachelor of Laws

Course Duration: 10 semesters full-time

Standard Credit Points/Full-Time Semester: 50.25

For Studen	Course Structure its with No Prior e of Japanese Language	QUT Code for Griffith Subjects	Credit Points	Contact Hrs/Wk	
Semester 1	(Autumn)				
LWB101 LWB102 LWB104 A3121	Introduction to Law Law of Contract Legal Research & Writing I Foundation Year Japanese Studies	EXL402	12 12 4	3 3 1	
A1104	Basic Japanese 1	EXL403			
Semester 2	(Spring)				
LWB101 LWB102 LWB104 A3121	Introduction to Law Law of Contract Legal Research & Writing I Foundation Year: Japanese Studies	EXL402	12 12 4	3 3 1	
A1104	Basic Japanese I	EXL403			
Semester 3	(Autumn)				
LWB103 LWB202 A1219	Torts Criminal Law Basic Japanese II One Japanese Studies/ Social Sciences Course*	EXL404	12 12	3 3	
Semester 4	Semester 4 (Spring)				
LWB103 LWB202	Torts Criminal Law		12 12	3 3	
* See note					

* See note, page 238.

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A1221	Basic Japanese III One Japanese Studies/ Social Sciences Course*	EXL405		
Semester 5 LWB201 LWB203 LWB301 A1319	(Autumn) Land Law Constitutional Law Equity Intermediate Japanese I	EXL406	12 12 12	3 3 3
Semester 6 LWB201 LWB203 LWB301 A1321	(Spring) Land Law Constitutional Law Equity Intermediate Japanese II	EXL407	12 12 12	3 3 3
Semester 7 LWB303 LWB311 LWB401 A3421	(Autumn) Commercial Law Administrative Law One Law Elective Subject Company Law & Partnership Advanced Japanese Project I	EXL408	12 12 8-12 3	3 3 2-3
Semester 8 LWB303 LWB311 LWB401 A3421	(Spring) Commercial Law Administrative Law One Law Elective Subject Company Law & Partnership Advanced Japanese Project I	EXL408	12 12 8-12 12	3 3 2-3 3
Semester 9 LWB402 LWB403 LWB404 LWB404 LWB414 LWB415 LWB309 A3521	(Autumn) Evidence Taxation Law Civil Procedure Drafting & Legal Transactions Legal Research & Writing II Succession Advanced Japanese Project II	EXL409	12 12 8 8 4 8	3 2 2 1 2
Semester 14 LWB403 LWB404 LWB414 LWB415 LWB409 A3521	0 (Spring) Taxation Law Civil Procedure Drafting & Legal Transactions Legal Research & Writing II One Law Elective Subject Professional Conduct (5 weeks) Advanced Japanese Project II	EXL409	12 8 8 4 8-12 2	3 2 2 1 2-3 2
For Studen	Course Structure ts with Prior of Japanese Language	QUT Code for Griffith Subjects	Credit Points	Contact Hrs/Wk
Semester 1 LWB101 LWB102 LWB104 A3121 A3201	(Autumn) Introduction to Law Law of Contract Legal Research & Writing I Foundation Year: Japan Studies Basic Japanese Oral Communication A OR	EXL402 · EXL410	12 12 4	3 3 1

* See note, page 238.



A3202	Basic Japanese Oral Communication B	EXL411		
Semester 2	(Spring)			
LWB101	Introduction to Law		12	3 3
LWB102 A3121	Law of Contract Foundation Year: Japan		12	3
A3121	Studies	EXL402		
A3201	Basic Japanese Oral	EVI 410		
	Communication A OR	EXL410		
A3202	Basic Japanese Oral			
	Communication B	EXL411		
Semester 3	(Autumn)			
LWB103	Torts		12	3
LWB202 A1319	Criminal Law & Procedure Intermediate Japanese I	EXL406	12	3
ADD	One Japanese Studies/	DAL-100		
	Social Sciences Course*			
Semester 4	(Spring)			
LWB103	Torts		12	3 3
LWB202	Criminal Law & Procedure	EVI 407	12	3
A1321	Intermediate Japanese II One Japanese Studies/	EXL407		
	Social Sciences Course*			
Semester 5	(Autumn)			
LWB201	Land Law		12	3
LWB203	Constitutional Law		12	3 3 3
LWB301 A1345	Equity Advanced Communication		12	3
1110 10	Skills in Japanese I	EXL412		
	One Japanese Studies/ Social Sciences Course*			
Semester 6				_
LWB201 LWB203	Land Law Constitutional Law		12 12	3 3 3
LWB301	Equity		12	3
A1340	Advanced Communication	EXL413		
	Skills in Japanese II One Japanese Studies/	EXL415		
	Social Sciences Course*			
Semester 7	(Autumn)			
LWB303	Commercial Law		12	3
LWB311	Administrative Law		12	3 2-3
LWB401	One Law Elective Subject Company Law & Partnership		8-12 12	2-3
A3421	Advanced Japanese Project I	EXL408		
Semester 8	(Spring)			
LWB303	Commercial Law		12	3
LWB311	Administrative Law		12 8 12	3
LWB401	One Law Elective Subject Company Law & Partnership		8-12 12	3 3 2-3 3
A3421	Advanced Japanese Project I	EXL408		

* See note, page 238.



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Semester 9 (Autumn)					
LWB402	Evidence		12	3	
LWB403	Taxation Law		12	3	
LWB404	Civil Procedure		8	2	
LWB414	Drafting & Legal Transactions		8	2	
LWB415	Legal Research & Writing II		4	1	
LWB309	Succession		8	2	
A3521	Advanced Japanese Project II	EXL409			
Semester 10 (Spring)					
Semester 1	0 (Spring)				
Semester 1 LWB403	0 (Spring) Taxation Law		12	3	
			12 8	3 2	
LWB403	Taxation Law				
LWB403 LWB404	Taxation Law Civil Procedure		8	2	
LWB403 LWB404 LWB414	Taxation Law Civil Procedure Drafting & Legal Transactions		8 8	2	
LWB403 LWB404 LWB414	Taxation Law Civil Procedure Drafting & Legal Transactions Legal Research & Writing II		8 8 4	2 2 1	

Note: Course selection will continue to be drawn from the following - subject to the academic interests of the students, timetabling constraints, and the approval of the School of Modern Asian Studies:

01 1.10401		
		QUT Code forGriffith Subjects
Japan St	udies	
A1271	The Japanese Economic	
	System	EXL414
A1274	Problems in Modern	
	Japanese History	EXL415
A1275	Politics & Foreign Policy	
	in Contemporary Japan	EXL416
A1277	Japanese Society & Culture	EXL417
A1279	Modern Japanese Literature	EXL418
A1376	Industrial Relations in Japan	EXL419
Social Sc	iences	
A1240	Anthropology	EXL420
A1241	Economics	EXL421
A1244	Historiography	EXL422
A1246	Political Science	EXL423
A1247	Sociology	EXL424
Themati	c Courses	
A1331	Australia & Asia	EXL425
A1341	Guided Studies Semester I	EXL426
A1342	Guided Studies Semester II	EXL427

General Information

Telephone Numbers

Law Faculty Office	223 2707
Law Library	223 2231
Legal Practice Office	223 2211

Staff

The Law Faculty has close to 40 full-time academic staff and about 180 part-time lecturers and tutors. Members of the Faculty maintain their legal expertise through a wide range of activities: research/writing, continuing legal education, and consultancy.

Acting Dean: Assoc. Prof. D.G. Gardiner, BA LLM(Syd), Barrister (NSW and ACT) Faculty Administration Officer: Mrs J.K. Blyth, BA(SecStudies)(CCAE), FIPS, JP Assistant Faculty Administration Officer: Mr P.A.H. Hains, BBus(PubAd), RAIPA

Law Library

Law Librarian: Ms T.C.M. Hutchinson, BA(Qld), DipLib(NSW), LLB(Qld), GradDipLegalPrac Assistant Law Librarian: Ms E. Jensen, BA, LLB(Qld), GradDipLegalPrac

LLB Course

Principal Lecturers: Mr B.J. Conrick, LLM(Old), Solicitor (Old), Barrister and Solicitor (ACT), FCIArb Mr W.D. Duncan, LLB(Qld), LLM(Lond), Solicitor Mrs C.A.C. MacDonald, BA LLB(Qld), LLM(Lond), Solicitor Senior Lecturers: Mr S.G. Corones, BCom LLB(Qld), LLM(Lond), Solicitor (Qld, and England and Wales) Mr G.A. Egert, BA LLM(Old), Barrister Mr R.J. Sibley, (CertEng), LLM(Qld), Barrister Mr P.V. Tahmindjis, BA LLB(Syd), LLM(Lond), Barrister (NSW) Lecturers: Mr D.A. Butler, LLB, Mr S. Chandra, LLB, LLM(Canterbury, NZ), Solicitor Mrs G.R. Clarke, BA(Old), LLB, Barrister Mrs I.T. Davies, LLB, GradDipLegalPrac, Solicitor Mrs A.M. Duetz, LLB, Solicitor Ms T. Johnson, BA LLB(Qld), LLM(Cantab), Solicitor Miss K.A. Lauchland, BA LLB(Qld), Solicitor Mrs N.M. L'Estrange, BA(Monash), LLB(Old), Solicitor Mr A.I. MacAdam, BCom LLB(Old), Barrister Mrs R. MacDonald, BA LLB(Old), GradDipLegalPrac, Solicitor Mr P. MacFarlane, BA(Flinders), BLS(Macq), LLM(Syd), Barrister Mrs G. Mackenzie, LLB, Solicitor Miss G.E. Nisbet, BA BSocWk(Qld), LLB, Solicitor Mrs B.J. O'Hair, BA LLB(Qld), SolicitorMr A.A. Preece, MA LLB(Cantab), Solicitor (England and Wales, and Old), Barrister and Solicitor (ACT) Mr J.R. Pyke, BSc(Syd), LLB(NSW), Barrister (NSW) Mr D.J. Robinson, LLB, GradDipLegalPrac, Solicitor Ms L.A. Taylor, BA LLB(Old), Solicitor Mrs V.M. Vidas, BA LLB(Old), Solicitor Miss A.E. Wallace, LLB(Qld), LLM(Mon), Solicitor Miss L.M. Willmott, BCom LLB(Old), Solicitor Mr I.A. Wilson, LLM(Melb), Barrister and Solicitor (Vic), Barrister (Qld)

Legal Practice Course

Director: Assoc. Prof. J.K. de Groot, BA LLB(Qld), Solicitor Senior Lecturer: Mr A.J. Chay, LLM(Qld), Solicitor





Prizes and Awards

OPEN PRIZES

Bar Association of Queensland Prize

An annual prize of \$100 awarded to the graduate who has shown the greatest proficiency in Evidence and Practice that year.

K.G. Copp Memorial Prize *

An annual prize of books to the value of approximately \$100 to perpetuate the memory of the late Graham Copp. Awarded to the student with the highest aggregate mark in the Law subjects studied for the LLB degree.

Justin Geldard Memorial Prize

An annual prize to perpetuate the memory of the late Justin Geldard; awarded to the graduating Bachelor of Laws student whose degree is the best pass degree.

Rod Grant Memorial Prize

An annual prize of \$500 to perpetuate the memory of the late Rod Grant, awarded to the Legal Practice Course student who produces the most practical/professional 'answer' to a legal problem set by an independent panel of practitioners.

Una Prentice Memorial Prize *

Awarded each year - under a Trust, by the Women Lawyers' Association of Queensland - to the woman student with the highest aggregate marks in Law subjects studied for the LLB degree.

Queensland Law Society Prize

An annual prize of \$400 awarded to the graduating Bachelor of Laws student with the highest aggregate mark in the subjects Commercial Law, Conveyancing and Drafting, Company Law and Partnership, and Taxation Law.

Charles Seymour Memorial Prize

An annual prize of \$500 presented by Seymour, Nulty and Co. to perpetuate the memory of the late Charles Seymour. The prize is for the student who, in the opinion of the Dean, has made the greatest contribution to the life of the Law Faculty during the year.

CLOSED PRIZES

Central District Law Association Bursary

A prize of \$300 awarded each year to a student, normally resident in the Central Queensland area, with the highest mark in Introduction to Law.

Gold Coast Law Association Bursaries

Conveyancing and Drafting: A bursary of \$250 awarded each year to the student (who is not a full-time student and who is articled to a solicitor in the Gold Coast area) with the highest mark in Conveyancing and Drafting.

* Since intending barristers study Jurisprudence and Administrative Law whilst intending solicitors study Conveyancing and Drafting, in the case of intending barristers the average mark obtained in Jurisprudence and Administrative Law will count for the purposes of the prize.



Practice: A bursary of \$250 awarded each year to the student (who is not a full-time student and who is articled to a solicitor in the Gold Coast area) with the highest mark in Practice.

McCullough Robertson Prizes

A prize of \$700 awarded each year to the second-year full-time LLB student with the highest aggregate mark in Law subjects.

A prize of \$300 awarded each year to the second-year full-time LLB student with the second highest aggregate mark in Law subjects.

A prize of \$700 awarded each year to the third-year full-time combined Accountancy/Law student with the highest aggregate mark in Law subjects.

A prize of \$300 awarded each year to the third-year full-time combined Accountancy/Law student with the second highest aggregate mark in Law subjects.

North Queensland Law Association Bursary

A bursary of \$300 awarded each year to the first-year student (who is not a full-time student and who is articled in the North Queensland Law Association district) with the highest aggregate mark in the first-year Law subjects Introduction to Law and Law of Contract.

Primrose Couper Cronin Rudkin Prize

A prize of \$500 awarded each year to the student (who is not a full-time student and who resides in the Gold Coast area) with the highest mark in Law of Contract.

SUBJECT PRIZES

Butterworths Pty Ltd Prizes

Administrative Law: A prize of book vouchers to the value of \$100 awarded each year to the best student in Administrative Law.

Constitutional Law: A prize of book vouchers to the value of \$100 awarded each year to the best student in Constitutional Law.

Criminal Law and Procedure: A prize of book vouchers to the value of \$100 awarded each year to the best student in Criminal Law and Procedure.

Land Law: A prize of book vouchers to the value of \$100 awarded each year to the best student in Land Law.

Law of Contract: A prize of book vouchers to the value of \$100 awarded each year to the best student in Law of Contract.

Torts: A prize of book vouchers to the value of \$100 awarded each year to the best student in Torts.

Clarke and Kann Prizes

Law of Contract: A prize of \$450 awarded each year to the best student in Law of Contract.

Taxation Law: A prize of \$900 awarded each year to the best student in Taxation Law.

Clewett Corser & Drummond Prize - Land Contracts

A prize of \$200 awarded each year to the best student in Land Contracts.

Family Law Practitioners' Association Prize

A prize of a book voucher to the value of \$50 awarded each year to the best student in Family Law.





Gilshenan & Luton Prize - Criminal Law and Procedure

A prize of \$200 awarded each year to the best student in Criminal Law and Procedure who is studying the subject for the first time.

Hill & Taylor Prizes

Securities: A prize of \$500 awarded each year to the best student in Securities.

Trade Practices Law: A prize of \$500 awarded each year to the best student in Trade Practices Law.

Law Book Company Prizes

Introduction to Law: A prize of a book voucher to the value of \$100 awarded each year to the best student in Introduction to Law.

Professional Conduct: A prize of a book voucher to the value of \$150 awarded each year to the best student in Professional Conduct.

Solicitors' Trust Accounts: A prize of a book voucher to the value of \$150 awarded each year to the best student in Solicitors' Trust Accounts.

Succession: A prize of a book voucher to the value of \$150 awarded each year to the best student in Succession.

Lyons (Solicitors) Prize - Practice

A prize of the loose-leaf service 'Supreme Court Practice' by Ryan, Weld & Lee (current value \$215) awarded each year to the best student in Practice.

Power & Power Prizes

Commercial Law: A prize of \$1,000 awarded each year to the best student in Commercial Law.

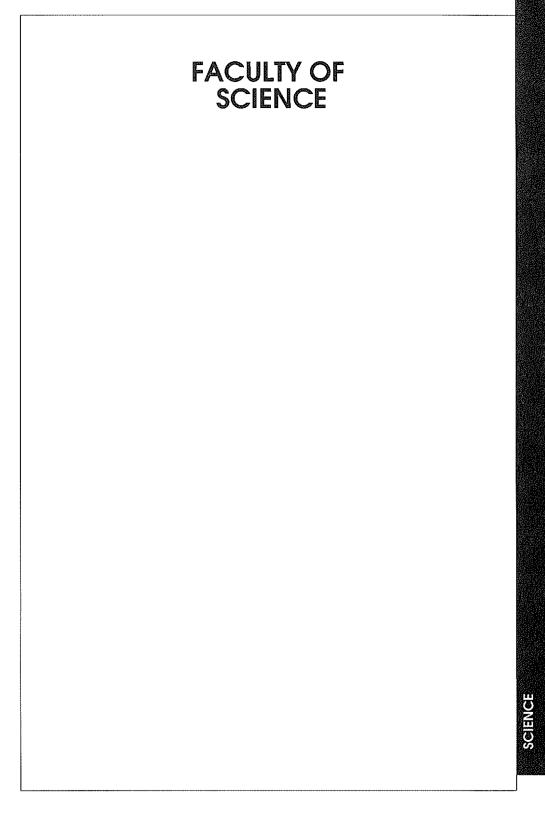
Company Law and Partnership: A prize of \$1,000 awarded each year to the best student in Company Law and Partnership.

Family Law: A prize of \$500 awarded each year to the best student in Family Law.

United Nations Association of Australia (Queensland) Prize: Public International Law

A prize of \$50 and one year's complimentary membership of the Queensland Division of the Association awarded each year to the best student in Public International Law.





FACULTY OF SCIENCE

Courses Offered

- ASN273 Master of Applied Science
- PHN176 Master of Applied Science with Strands in Medical Physics and Medical Ultrasound
- CHN217 Master of Applied Science Chemical Analysis
- IFM242 Graduate Diploma in Quality (see page 21)
- PHM271 Graduate Diploma in Applied Science
- ASJ226 Bachelor of Applied Science
- ASJ247 Bachelor of Applied Science (Honours)+
- CHJ129 Bachelor of Applied Science Applied Chemistry
- ESJ132 Bachelor of Applied Science Applied Geology*
- MAJ133 Bachelor of Applied Science Mathematics
- PHJ248 Bachelor of Applied Science Medical Radiation Technology
- PHK205 Diploma of Applied Science Diagnostic Radiography*
- PHK206 Diploma in Applied Science Therapeutic Radiography*
- ASL225 Associate Diploma in Applied Science

The Faculty

The Faculty of Science - which comprises the Departments of Applied Geology, Biology, Chemistry, and Physics, and the School of Mathematics - provides up-to-date educational programs with both practical emphasis and sound theoretical foundation. Hence, QUT science graduates are able to avail themselves of a range of satisfying career opportunities in widely diverse fields.

The Faculty maintains its pre-eminence through strong links with professional bodies, employers and allied groups, and through the continuing expertise of its staff. Close interaction between employers and academic staff is afforded by the co-operative education option available in the Faculty's degree level courses - it integrates academic studies with an extended period of paid industrial experience. The academic area also interacts with the community both in Australia and overseas through continuing education courses on a range of topics, and through applied research projects, consultancy activities and testing services based on expertise within the Faculty.

+ Honours strands are being phased in. Intending candidates should consult the Faculty office concerning the current offering.

* These courses are being phased out and intending students directed into other courses. Students re-enrolling after a break from study should consult the Head of the relevant department about the course program.



Technology transfer services offered by the Faculty are channelled through several research and development centres.

The Centre for Biological Population Management, in the Department of Biology, is developing new economic techniques and resources such as aquaculture and production of new plant varieties. Centre scientists have already made significant contributions to the agricultural industry world-wide by developing management strategies for the control of pest populations. The Centre also offers an environmental monitoring service.

The Centre for Analytical Science in the Department of Chemistry pioneered the joint acquisition/management of expensive research facilities with the other Brisbane universities. The Centre assists manufacturing industry with consulting/testing services not readily available elsewhere, and offers research/consulting activities including analytical method development, mass spectrometry, atomic spectroscopy, laboratory automation, corrosion and polymer science.

Consulting, research and technical services are also available to the mining and civil engineering industries through the Centre for Sedimentary and Environmental Geology based in the Department of Applied Geology. Its services include geotechnical investigations, petro-chemical analysis of geological material, environmental geochemistry, and specialised geological training programs for professionals.

The application of physics to clinical and occupational health internationally is fostered by the expertise available in the Faculty's Medical and Health Physics Centre, in the Department of Physics. Centre staff are active in many areas including new product development, improving the performance of existing medical instrumentation, environmental assessment including radiation monitoring, and technology transfer.

A Key Centre in Strategic Management through Quality has been established through the collaborative efforts of QUT's Business, Engineering and Science Faculties. Its activities include specialised courses, consulting services and specific research.

Course Structures

ASN273 Master of Applied Science

The objectives of this course are:

- □ to provide postgraduate educational opportunities in specialised fields of applied science 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, and thus 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 master degree courses to faculty academic boards. Academic boards shall report biannually to Research Management Committee on progress made by research master degree candidates.
- 1.4 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 have 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 during the term of enrolment.

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, shall be
 - □ possession of a bachelor degree in applied science 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.

2.6.1 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.

2.6.2 A candidate who is unable to devote to the course the proportion of time specified in Section 2.6.1 may register as a part-time student.

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 in Stage 1 of the course unless exemption has been obtained (see 3.7 below).
- 2.9 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/her studies or has no reasonable expectation of completing the course of study within the maximum time allowed (see Section 4).
- 2.10 A candidate whose registration has lapsed or has been cancelled and who wishes subsequently to re-enter the course 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 The program consists of two parts, Stage 1 and Stage 2. Progression to Stage 2 will be dependent on satisfactory completion of Stage 1 or special permission from the Academic Board. Stage 1 will comprise a program of assessed coursework as defined in 3.4 and 3.5 as appropriate for each candidate. Stage 2 will comprise a program of supervised research and investigation as indicated in 3.1 and 3.2.
- 3.4 Coursework at masters level may be conducted in a number of ways such as
 - advanced lecture courses
 - □ seminars in which faculty and students present critical studies of selected problems within the subject field
 - □ independent study or reading courses, or
 - □ 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 A candidate shall be required to participate in and present seminars as considered appropriate by the Principal Supervisor. The candidate shall be notified of minimum attendance requirements at the time of acceptance of enrolment.
- 3.6 Stage 1 will normally occupy not more than half of the total period of registration and not more than 96 credit points.
- 3.7 Students entering the course with an honours degree or its equivalent or candidates with substantial relevant work experience will normally gain exemption from most or all of Stage 1 at the discretion of the Academic Board on the recommendation of the Head of Department/School.
- 3.8 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 candidate who does not hold an honours degree appropriate to the course of study will normally be required to complete both Stage 1 and Stage 2, including submission of the thesis for examination as required in Stage 2, during a period of registration of twenty-four months. The corresponding period in the case of a part-time candidate shall be forty-eight months. In special cases the Academic Board may approve a shorter period.
- 4.2 On successful completion of Stage 1 (96 credit points), students with GPA of 5.0 or greater will be permitted to continue to Stage 2.
- 4.3 A holder of an honours degree appropriate to the course of study may submit the thesis for examination after not less than twelve months of registration in Stage 2 if a full-time student, or twenty-four months if a part-time student. Exemption from all or part of Stage 1 may be granted as indicated in 3.7 above. In special cases the Academic Board may approve a shorter period.
- 4.4 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 work 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. Transfer of Registration

- 5.1 Where a candidate has undertaken part of a proposed course of study as a registered student in another institution, this period of registration may, on application in writing to the Academic Board at the time of application for registration, be counted towards the candidate's period of registration in the QUT course. The application must include details of the work already undertaken, the reasons for the transfer and the expected date of completion.
- 5.2 Applications for transfer normally should be submitted at least twelve months in advance of the probable date of submission of the thesis.

6. Supervision

- 6.1 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 the others as Associate Supervisors.
- 6.2 In the case of an internal student, the Principal Supervisor normally shall be from the academic staff of the school/department where the student carries out the work.
- 6.3 In the case of an external student, the Principal Supervisor normally shall be from the academic staff of the school/department supporting the work and at least one Associate Supervisor shall be from the sponsoring organisation.
- 6.4 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 candidate before submission to the Academic Board.



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 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/Department 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 master degree, that the program is supported, and that the School/Department/Centre is willing to undertake the responsibility of supervising the applicant's work.
- 7.3 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/Department 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 master 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.

8. Thesis

- 8.1 In the form of presentation, availability and copyright, the thesis shall comply with the provisions of the document *Requirements for Presenting Theses*.
- 8.2 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.
- 8.3 The candidate shall give two months' notice of intention to submit the thesis. Such notice shall be accompanied by the appropriate fee, if any.
- 8.4 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 jointly 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, and
 - □ the thesis shall contain an abstract of not more than 300 words.
- 8.5 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.

- 8.6 Subject to QUT's Intellectual Property policy, the copyright of the thesis is vested in the candidate.
- 8.7 Where a candidate or the sponsoring establishment wishes the thesis to remain confidential for a period of time after completion of the work, application for approval must be made to the Academic Board when the thesis is submitted. The period of confidentiality 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.

9. Examination of Thesis

- 9.1 The Academic Board shall appoint at least two examiners, of whom at least one shall be from outside the University. Normally examiners will be required to agree to read and report upon the thesis within two months of its receipt.
- 9.2 A candidate may be required to make an oral defence of the thesis.
- 9.3 On receipt of satisfactory reports from the examiners, and when the provisions of 7.1 have been fulfilled, the Academic Board shall recommend to Academic Committee that the candidate be awarded the degree.
- 9.4 If the examiners reports are conflicting, the Academic Board may, after appropriate consultation with the Principal Supervisor, seek advice from a further external examiner.
- 9.5 If, on the basis of the examiners' reports, the Academic Board does not recommend that the degree be awarded then it shall
 - permit the student to resubmit the thesis within one year for re-examination, or
 - □ cancel the student's registration.

PHN176 Master of Applied Science with Strands in Medical Physics and Medical Ultrasound

Course Duration: 4 semesters full-time or 8 semesters part-time (plus Summer Semester)

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Dr Bob Treffene

Entry Requirements

To be eligible to enrol for the Medical Physics Strand, an applicant must have completed an acceptable tertiary course with a major in Physics.

Applicants with other qualifications (e.g., Engineering) may be enrolled subject to the approval of the Head of Department of Physics. In some instances, a bridging program may be necessary.

To be eligible to enrol in the Medical Ultrasound Strand, an applicant will normally be qualified as a diagnostic radiographer (or medical imaging technologist) at degree or diploma level and have had a minimum of two years experience as a practising radiographer.



Applicants with other qualifications (e.g., in paramedical or physical sciences) or with other appropriate experience, may be permitted to enrol subject to the approval of the Head of Department of Physics. In some instances, a bridging program may be necessary.

Course Requirements

MEDICAL PHYSICS STRAND

To complete Stage I, students must complete subjects selected from the list below, totalling 96 credit points. Subjects PHN157, PHN257, PHN357, PHN352, PHN354, PHN155, PHN156 are not available to students in the Medical Physics Strand.

MEDICAL ULTRASOUND STRAND

To complete Stage I, students must complete subjects selected from the list below totalling 108 credit points. Subjects PHN157, PHN257 and PHN357 are compulsory for students in the Medical Ultrasound Strand. Subject PHN402 is not available to students in the Medical Ultrasound Strand.

For both strands, progression to Stage II will be dependent upon satisfactory completion of Stage I or special permission of the Head of Department.

On successful completion of Stage I:

- 1. students with GPA <5 will normally graduate with a GradDipAppSc (Medical Physics or Medical Ultrasound); while
- 2. students with GPA ≥5 will be permitted to
 - (a) graduate as above, or

(b) continue with Stage II (which is a further one year full-time or equivalent) involving a project leading to the award MAppSc.

Stage I		Credit Points	Contact Hrs/Wk
Autumn Se	emester		
PHN101	Analogue Electronics	6	2
PHN102	Introduction to Medical		
	Statistics & Computing	6	2
PHN103	Radiation Physics I	6	2 2 3 2 3 3 3 2 2 2 2
PHN104	Radiation Physics II	8	3
PNN161	Anatomy & Physiology I	6	2
PHN202	Biomechanics	8	3
PHN204	Health & Occupational Physics	8	3
PHN206	Medical Imaging	8	3
PHN351	Ultrasound Equipment II	6	2
PHN352	Ultrasonic Examination in Cardiology	6	2
PHN353	Ultrasound in Medical Diagnosis	6	2
PHN354	Ultrasonic Examination of		
	Head, Neck & Peripheral Organs	6	2
PHN357	Clinical Ultrasound III*	12	
Spring Sen	nester		
PHN301	Microprocessors	8	3
PHN302	Instrumentation		3
PHN304	Medical Imaging Science	6	2
PNN165	Anatomy & Physiology II	8 6 8	3
PHN151	Physics of Ultrasound	6	2
PHN152	Cross-sectional Anatomy	6	2
PHN153	Ultrasound Equipment I	6	3 3 2 3 2 2 2 2 2
PHN154	Principles of Ultrasound Imaging	6	2

* No formal class attendance required.



PHN155	Ultrasonic Examination in			
	Obstetrics/Gynaecology	6	2	
PHN156	Ultrasonic Examination of the Abdomen	6	2	
PHN402	Radiotherapy	6	2	
PHN157	Clinical Ultrasound 1*	12		
PHN405	Physiological Measurement	6	2	
PHN407	Case Studies*	6	2	
Summer Semester (10 weeks)				
PHN257	Clinical Ultrasound II*	12		

The three units PHN157, PHN257 and PHN357 are compulsory for students in the Medical Ultrasound Strand. Each unit involves 240 hours of clinical experience and students must successfully complete these units in the order PHN157, PHN257 and PHN357.

Stage II		Credit Points
PHN520-1	Project (F/T)	48
PHN520-2	Project (F/T)	48
PHN540-1	Project (P/T)	24
PHN540-2	Project (P/T)	24
PHN540-3	Project (P/T)	24
PHN540-4	Project (P/T)	24

Note

A student may request an extension of time in which to submit the project report for assessment. A request for an extension of time up to a maximum of six months shall be made in writing through the Head of Department to the Dean. Any request for a further extension, or any request for an extension to a date later than six months after the original due date, shall be made in writing to the Academic Board. The Academic Board may grant the extension under such conditions as it may consider appropriate, or may award the student a 'Fail' result in the project subject.

A student who has received a 'Fail' result in the project subject may re-enrol in the subject only in exceptional circumstances and with the express permission of the Academic Board.

Enrolments in the Medical Physics Strand are accepted in February each year. Enrolments in the Medical Ultrasound Strand are accepted in July each year.

Medical Ultrasound students undertake Stage I Spring Semester subjects in their first semester of enrolment, and Stage I Autumn Semester subjects in their second semester of enrolment.

CHN217 Master of Applied Science – Chemical Analysis

From 1990 no new enrolments into this course will be accepted. New students are referred to the rules for ASN273 Master of Applied Science. Continuing students should refer to the course rules set out in the 1989 *Faculty of Science Handbook*.

* No formal class attendance required.



PHM271 Graduate Diploma In Applied Science with Strands in Medical Physics and Medical Ultrasound

No enrolments are accepted directly into this course.

For details see Course Rules for PHN176 Master of Applied Science with strands in Medical Physics and Medical Ultrasound.

ASJ226 Bachelor of Applied Science with Strands in Biology, Chemistry, Microbiology/Biochemistry, Geology, Mathematics, Physics

Course Duration: 6 semesters full-time, 12 semesters part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Dr Don Field

Special Course Requirements

- 1. To fulfil the requirements for the award of the degree, a student must complete subjects totalling at least 288 credit points, including a maximum of 120 credit points at first level, and comprised of major, sub-major and supporting studies. Major and sub-major studies are defined in Requirement 5.
- 2. Students are required to attend scheduled academic advising sessions to plan their progression through the course, and to obtain the approval of an academic adviser prior to affecting any change of enrolment.
- 3. Students are normally expected to complete the course in minimum time. A full-time student will enrol in an average of 48 credit points per semester for six semesters, and a part-time student will complete the same number of credit points over twelve semesters.
- 4. A typical program of study* will consist of not less than 288 credit points, including a maximum of 120 credit points at first level and will include:
 - (a) major studies: A minimum total of 136 credit points, including a minimum of 48 credit points at third level and a maximum of 32 credit points at first level as specified in Requirement 5;
 - (b) sub-major studies: at least 64 credit points, including a minimum of 16 credit points at third level and a maximum of 16 credit points at first level as specified in Requirement 5; and
 - (c) supporting studies: subjects not limited by course rules (see Note 3 for details). Specified supporting subjects are required in some areas, especially at first level (see Specification of Majors Table below).
- 5. Major and sub-major studies are defined in terms of the discipline and the academic level at which subjects are offered:

*See Course Requirements Note 4.



- (a) A major must be completed in one of the following discipline areas biology, chemistry, microbiology/biochemistry, geology, mathematics, physics. Completion of a major consists of passing subjects totalling at least 136 credit points, of which no more than 32 credit points shall be at first level. At least 48 credit points must be completed at third level. The total credit points specified for each major are set out in Specification of Majors Table below, together with prescribed supporting studies.
- (b)A sub-major may be completed in any approved area within the University. Completion of a sub-major consists of passing subjects totalling at least 64 credit points, of which no more than 16 credit points shall be at first level. Except in special circumstances and with the prior permission of the Dean, at least 16 credit points must be completed at third level.

Major and sub-major studies may be undertaken in the same or in closely related discipline areas.

6. Co-operative Education Option - one year's paid industrial experience.

A registered student who has completed the equivalent of the first and second years of the standard full-time course, normally with a GPA of not less than 4.5 overall, may, at the discretion of the Co-operative Education Program Co-ordinator, undertake the Co-operative 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 units Industrial Experience I (first semester) and Industrial Experience II (second semester). On completion of the approved industrial experience the student resumes formal studies.

Subject Schedules

Pre- and co-requisite subjects and incompatible subjects are shown in Outline of Subjects.

(A) = offered in Autumn Semester; (S) = offered in Spring Semester; (A/S) = offered in either semester; (Y) = offered all year long.

First Schee	lule - First Level Subjects	Credit Points	Contact Hrs/Wk
BIOLOGY S BEB103 BEB104 BEB201	Biology IA (A) Biology IB (A) Cell Biology (S)	8 6 8 8	3 3 3 3
BEB207 CHEMISTR CHB101 CHB102 CHB201 CHB202	Biological Systems (S) Y SUBJECTS Chemistry IA (A) Chemistry IB (A/S) Chemistry IIA (S) Chemistry IIB (S)	8 6 8 6	3 3 3 3 3
GEOLOGY ESB101 ESB102 ESB201 ESB202	SUBJECTS Earth Science IA (A) Earth Science IB (A) Earth Science IIA (S) Earth Science IIB (S)	8 8 8 8	3 3 3 3
MATHEMA MAB211 MAB216 MAB224 MAB225 MAB226	TICS SUBJECTS Mathematics IA (A/S) Discrete Mathematics (A) Mathematics IB (A/S) Mathematics IC (S) Mathematics ID (S)	8 8 8 8 8	3 3 3 3 3



MAB227	Statistics (A/S)	8	3
MICROBIOI MSB101	OGY/BIOCHEMISTRY SUBJECT Microbiology I (S)	6	3
PHYSICS SU	JBJECTS		
PHB110	Physics IA (A)	8	3
PHB111	Physics IB (A)	8	3
PHB210	Physics IIA (S)	8	3
PHB211	Physics IIB (S)	8	3
OTHER SUB	JECTS		
ASB101	Study Support Skills (A) *	2	1
ASB200	Introductory Meteorology (S)	8	3
BEB149	Introductory Biology (A)	6	3
CHB001	Introductory Chemistry (A)	6	3
CMB106	Professional Communication (A/S)	6	3
CSB155	Introduction to Computing (A/S)	8	3
CSB283	Scientific Applications (S)	8	3
MNB154	Psychology (A/S)	9	3
PHB104	Introductory Physics (A)	6	3

and such other subjects as may be approved by the Faculty of Science Academic Board from time to time.

J		Credit Points	Contact Hrs/Wk
BEB303	Biology II (S)	6	6
BEB321	Plant Physiology (A)	8	3
BEB357	Populations & Systems Ecology (A)	8	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
BEB358	Experimental Design (A)	8	3
BEB366	Biology & Soils (A)	8	3
BEB388	Aquaculture (A)	8 8 8 8	3
BEB390	Field Studies I (S)	8	3
BEB411	Animal Physiology (S)	8	3
BEB423	Plant Tissue Culture I (S)	8	3
BEB429	Vegetation Studies (S)	8	3
BEB435	Genetics (S)	8	3
BEB444	Population Analysis (S)	8	3
CHB310	Analytical Chemistry III (A/S)	8	4
CHB327	Chemical Technology III (A)	6	3
CHB340	Spectroscopy (A/S)	8	4 3 4 4 4 3 3 3 3 3
CHB351	Organic Chemistry IIIC (A)	8	4
CHB371	Physical Chemistry IIIC (A)	8	4
CHB411	Environmental Analytical Chemistry (S)	8 8 8 8	4
CHB427	Chemical Technology IV (S)	8	4
CHB430	Inorganic Chemistry IV (S)	8	3
CHB440	Separation Methods (S)		3
CHB451	Organic Chemistry IVC (S)	8	3
CHB471	Physical Chemistry IVC (S)	8	3
ESB317	Optical Mineralogy (A)	8	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ESB320	Mineral Assemblages (A)	8	3
ESB357	Structural Geology (A)	8	3
ESB367	Economic Mineral Deposits (A)	8	3
ESB397	Field Techniques (A)	8	3
ESB403	Geochemistry (S)	8	3
ESB417	Igneous & Metamorphic Petrology II (S)	8	3
ESB437	Geophysics (S)	8	3
ESB447	Petroleum Geology (S)	8	3
ESB453	Applied Geomorphology (S)	8	3
ESB477	Land Law & Mining Applications (S)	8	3

* This subject must be undertaken by all students unless exemption has been granted.



ESB487 ESB497 MAB409 MAB410 MAB411 MAB412 MAB417 MAB418 MAB425 MAB442	Geological Field Studies (S) Sedimentology (S) Modern Algebra (A/S) Linear Algebra A (A/S) Mathematics 2A (A) Mathematics 2B (A) Mathematical Statistics A (A/S) Mathematical Statistics B (A/S) Mathematics 2C (S) Financial Mathematics (A/S)	8 8 10 10 10 10 10 10 10	3 3 3 3 3 3 3 3 3 3 3 3 3
MSB310 MSB408 MSB410 MSB412 MSB415 MSB416 MSB450 MSB454	Biochemical Methodology III (A) Virology IV (S) Biochemical Methodology IV (S) Immunology IV (S) Biochemistry III (A/S) Biochemistry IV (A/S) Microbiology III (A) Microbiology IV (A/S)	8 8 8 10 10 6 8	4 4 4 5 5 3 4
PHB308 PHB310 PHB311 PHB312 PHB316 PHB401 PHB402 PHB405 PHB405 PHB408 PHB411 PHB416	Electronics I (A) Wave Theory & A.C. Circuits (A) Optics & Acoustics (A) Physical Properties of Materials (A) Experimental Physics III (A) Thermal & Vacuum Physics (S) Relativity & Radiation Physics (S) Instrumentation (S) Electronics II (S) Astronomy (S) Experimental Physics IV (S)	8 8 8 8 8 8 8 8 8 8 8 8 12	3 3 3 3 3 3 3 3 3 3 6
PNB305 PNB405 PNB231* PNB232* such other s	Human Nutrition I (A) Human Nutrition II (S) Anatomy & Physiology I (A/S) Anatomy & Physiology II (A/S) subjects as may be approved by the	6 6 8 8	3 3 4 4

Faculty of Science Academic Board from time to time.

Third Schedule - Third Level Subjects		Credit Points	Contact Hrs/Wk
BEB447	Environmental Monitoring (A)	8	3
BEB490	Field Studies II (A)	8	3
BEB500	Selected Topics I (A)	8	3
BEB523	Plant Tissue Culture II (A)	12	3 3 5 3
BEB535	Population Genetics (A)	8	3
BEB560	Projects I (A)	16	6
BEB563	Biological Resources (S)	8	6 3 3 3 3 3 5
BEB588	Aquaculture II (A)	8	3
BEB600	Selected Topics II (S)	8	3
BEB621	Plant Physiology II (S)	8	3
BEB653	Population Management (S)	8	3
BEB655	Case Studies(S)	12	5
BEB660	Projects II (S)	16	6
CHB510	Instrumental Analysis (A)	8	4
CHB527	Chemical Technology V (A)	8	4
CHB530	Inorganic Chemistry V (A)	8	3
CHB551	Organic Chemistry VC (A)	8	3 3
CHB571	Physical Chemistry VC (A)	8	3

* Students wishing to undertake studies in Nutrition will be required to pursue alternative physiology units.

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CHB590 CHB600 CHB610 CHB627 CHB628 CHB631 CHB641 CHB651 CHB660 CHB671 CHB690 CHB691	Materials Science (A) Project (S) Advanced Analysis (S) Chemical Technology VI (S) Energy Technology (S) Advanced Inorganic Chemistry (S) Advanced Spectroscopy (S) Biological Chemistry (S) Industrial Visits (S) Solids & Surfaces (S) Advanced Materials Science (S) Environmental Chemistry (S)	8 20 4 6 8 8 8 8 8 8 8 8 8 8 8	3 10 2 2 3 3 3 3 1 3 3 3 3 3 3
ESB517 ESB520 ESB527 ESB547 ESB597 ESB607 ESB617 ESB633 ESB647 ESB653 ESB677 ESB687	Mineral Exploration (A) Applied Geochemistry (A) Hydrogeology (S) Igneous & Metamorphic Petrology (A) Field Excursions V (A) Stratigraphy (A) Coal Geology (S) Mining Geology (S) Exploration Geophysics (A) Structural Geology & Geotechtonics (S) Engineering Geology (S) Field Excursions VI (S) Geological Investigations (S)	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MAB710 MAB718 MAB719 MAB735 MAB737 MAB741 MAB782 MAB788 MSB510 MSB511 MSB512 MSB520 MSB521 MSB520 MSB521 MSB520 MSB610 MSB610 MSB610 MSB610 MSB610 MSB620 MSB621 MSB630 MSB712 MSB718 MSB719 MSB755 MSB756	Linear Algebra B (S) Numerical Analysis A (A/S) Numerical Analysis B (S) Mechanics (A) Operations Research (A/S) Actuarial Mathematics (A) Field Theory (S) Mathematical Statistics (A/S) Food Microbiology (A) Microbial Physiology & Metabolism V (A Virology V (A) Biochemistry V (A) Biochemical Separations (A) Introductory Molecular Biology (A) Microbial Technology (S) Applied Microbiology (S) Biochemistry VI (S) Analytical Biochemistry (S) Genetic Engineering (S) Immunology V (A) Clinical Biochemistry VI (S) Microbiology V (A) Clinical Biochemistry VI (S)	10 10 10 10 10 10 10 10 10 10	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
PHB501 PHB502 PHB508 PHB510 PHB516 PHB601 PHB602 PHB608 PHB609 PHB613 PHB616 PHB620	Applied Quantum Mechanics (A) Electromagnetic Field Theory (A) Electronics III (A) Physical Methods of Analysis (A) Experimental Physics V (A) Solid State Physics (S) Nuclear Physics & Energy (S) Applied Acoustics (S) Applied Radiation Physics (S) Biophysics (S) Project (A/S) Topics in Physics (S)	8 8 8 12 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3 3 3 3 6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3



and such other subjects as may be approved by the Faculty of Science Academic Board from time to time.

A registered student who has completed the first and second years of the standard full-time course may undertake a Co-operative Education Option at the discretion of the Course Co-ordinator. During this period, the student should enrol in the following units:

ASB300 Industrial Experience I (A) ASB400 Industrial Experience II (S)

Specification of Majors Table

Detailed information concerning the specification of majors is available from the Faculty office.

The credit points (#) specified are minimal; additional subjects may be undertaken.

To satisfy prerequisite requirements within a given program, it may be necessary to include specific first level and/or second level subjects.

Major Biology (136#)	First Level (i) 30# of biology subjects. (ii) Required supporting subjects: • 16# of mathematics subjects, including Statistics. • 8# of computing. • 16# of chemistry.	Second & Third Levels 106# of biology subjects, including 48# from the third schedule.
Chemistry (136#) [See also Note 6]	 (i) 28# of chemistry subjects. (ii) Required supporting subjects: 24# of mathematics subjects. 8# of computing. 	108# of chemistry subjects, including 56# from the third schedule.
Microbiology/ Biochemistry (136#) [See also Note 6]	 (i) 6# of microbiology subjects. (ii) Required supporting subjects: 20# of biology subjects. 24# of subjects from mathematics and computing. 28# of chemistry subjects. 	At least 104# of micro- biology and biochemistry subjects, including 74# from the third schedule.
Geology (136#)	 (i) 24# of geology subjects. (ii) Required supporting subjects: 24# of subjects from mathematics, physics, chemistry, biology, computing. 	112# of geology subjects, including 48# from the third schedule.
Mathematics (136#)	32# of mathematics subjects.	104# of mathematics subjects, including 60# from the third schedule.

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Physics (136#) [See also Note 6]

- (i) 32# of physics subjects.
- (ii) Required supporting subjects:32# of mathematics

subjects, including Statistics I. including 52# from the third schedule. (ii) 20# of mathematics subjects.

(i) 104# of physics,

• 16# of computing.

Course Requirements Notes

- 1. Subjects are presented as units, usually of one semester's duration.
- 2. First level subjects are defined to be those listed in the first schedule to the course rules. Second level and third level subjects are defined, respectively, to be those listed in the second and third schedules to the course rules. In general, it is expected that a second level subject will have one or more first level prerequisite subjects. Similarly, a third level subject is likely to have one or more second level prerequisite subjects.
- 3. Sub-major studies and supporting studies may be selected (subject to prerequisite and timetabling constraints) from any approved area within the University.
- 4. Instead of the major and sub-major requirement in the typical minimum program as described in Requirement 4, students may, in special circumstances and with the approval of the Dean, undertake two majors as defined above or a major and two sub-majors.
- 5. Supporting studies are subjects selected in order to
 - (a) complete the required number of credit points (see Requirement 1);
 - (b) satisfy prerequisite or co-requisite requirements;
 - (c) satisfy general requirements for first level programs as indicated in Specification of Majors Table;
 - (d) increase the scope of the program (e.g., for a teaching career) by the inclusion of specific skills or additional content.
- 6. Students wishing to major in Chemistry are encouraged to take Statistics and 8 credit points of Computing at first level.

Students wishing to major in Microbiology/Biochemistry should note that supporting studies taken at first level will affect their choice of subjects in later years because of prerequisite requirements.

Students wishing to major in Physics will be required to undertake at least 20 credit points of second level Mathematics.

7. Detailed information concerning the specification of majors and sub-majors is available from the Faculty office or from an academic adviser

ASJ247 Bachelor of Applied Science (Honours)

From 1990 a fourth year Honours program in Geology will be available following completion of the multidisciplinary Bachelor of Applied Science degree course. Other major strands are proposed to be offered in 1991.

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48



Entry Requirements

To be eligible to enrol in the Honours year, an applicant must hold a recognised Bachelor's degree, with major study in the relevant discipline area. The applicant's overall level of achievement at undergraduate level is normally expected to be no less than 5.0 on a 7 point grading scale over all third-level subjects related to the area of study in the Honours year. The third-level subjects deemed relevant to the Honours year will be determined by the Head of Department/School and the Dean.

Applicants for entry to the Honours program will, normally, be new graduates or those who completed their Bachelor's degree no more than 15 months prior to commencement of the Honours year.

Course Structure

The Honours program is comprised of 96 credit points. The course structure may vary slightly from one student to another, depending on particular subjects chosen.

Part-time candidates will undertake annually approximately half of the full-time program. Classes will be held at the same times as for full-time students and thus may involve some day release.

The general course structure is:

Information Retrieval Skills 4 credit points Advanced Topics (min) 36 credit points Complementary Studies (max) 16 credit points Project (max) 40 credit points

		Credit Points	Contact Hrs/Wk
IFN001	Information Retrieval Skills	4	4
ASP702	Complementary Studies	16	6
ESP700	Project	40	
Advanced	Topics selected from:		
ASP703	Studies in Global Systems A	9	3
ESP701	Biogeography, Palaeoecology & Evo	lution 9	4
ESP702	Geology Case Studies I	9	4
ESP703	Geology Case Studies II	9	4
ESP704	Advanced Sedimentary & Environme	ental	
	Geology	6	2
ESP705	Advanced Resource Geology	6	2
ESP706	Advanced Engineering Geology	6	2

CHJ129 Bachelor of Applied Science - Applied Chemistry

Course Duration: 6 semesters full-time, 12 semesters part-time

Total Credit Points: 314

Standard Credit Points/Full-Time Semester: 52.33

Course Co-ordinator: Mr Eric O'Reilly



Full-Time (Course Structure	Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
CHB110 CHB150 CHB180	Analytical Chemistry I Organic Chemistry I Physical & Inorganic Chemistry I	ნ 8 8	3 4 4
MAB211 PHB110	Mathematics IA Physics IA	8 8	3 3 3 3
PHB111 CMB106	Physics IB Professional Communication	8 6	
ASB101	Study Support Skills	2	1
Semester 2			
CHB210 CHB230	Analytical Chemistry II	6 6	3 3
CHB250 CHB250	Inorganic Chemistry II Organic Chemistry II	8	4
CHB270	Physical Chemistry II	8	4
MAB224	Mathematics IB	8	3
PHB260	Physics IIG	8	4
FIID200	Strand Subject (one only)*	0	4
MSB101	A Microbiology I OR	б	3
CSB155	B Introduction to Computing OR	8	3
ESB220	C Mineralogy	8	3
Semester 3	(Autumn)		
CHB310	Analytical Chemistry III	8	4
CHB327	Chemical Technology III	6	3
CHB340	Spectroscopy	8	3
CHB350	Organic Chemistry III	8	4
CHB370	Physical Chemistry III	8	4
CSB262	Computing (Strand A and C)** OR	6	2
CSB281	Computer Systems I (Strand B) Strand Subject*	12	3
MSB473	A Biochemistry III OR	6	3
PHB308	B Electronics I OR	8	3
ESB320	C Mineral Assemblages	8	3
Semester 4	(Spring)		
CHB427	Chemical Technology IV	8	4
CHB430	Inorganic Chemistry IV	8	3 3
CHB440	Separation Methods	8	
CHB450	Organic Chemistry IV	8	4
CHB470	Physical Chemistry IV	8	4
MAB227	Statistics	8	3
MSB474	Strand Subject* A Biochemistry IV OR	6	3
PHB408	B Electronics II	8	3
ESB403	OR C Geochemistry	8	3

*Elective Strand is indicated by A Biochemistry/ Microbiology, B Computing/Electronics, or C Geology.

**Students who elect to study elective Strand B Computing/ Electronics are required to study CSB281 rather than CSB262. Students electing Strands A or C study CSB262.



Semester 5 (Autumn)				
CHB510	Instrumental Analysis	8	4	
CHB527	Chemical Technology V	8 8	4 3 4 4 3	
CHB530	Inorganic Chemistry V	8	3	
CHB550	Organic Chemistry V	8	4	
CHB570	Physical Chemistry V	8	4	
CHB590	Materials Science	8	3	
	Strand Subject*			
MSB102	A Microbiology II	6	3	
	OR	2		
PHB508	B Electronics III	8	3	
	OR			
ESB520	C Applied Geochemistry	8	3	
Semester 6	(Spring)			
CHB600	Project	20	10	
CHB610	Advanced Analysis	4	2	
CHB627	Chemical Technology VI	4	2 2 2 1	
CHB640	Chemistry VI	4	2	
CHB660	Industrial Visits	4 2 4		
MNB040	Management	4	I	
	Chemistry Elective			
CHB628	Energy Technology	6	3	
	OR		_	
CHB690	Advanced Materials Science	8	3	
	Strand Subject*	-	_	
MSB103	A Microbiology III	8	3	
OTTD (10)	OR			
CHB618	B Laboratory Automation	8	3	
DOD 411	OR GETTER Designed	D		
ESB411	C Earth Resources	8	3	

Co-operative Education Option

A registered student who has completed the equivalent of the first and second years of the standard full-time course, normally with a GPA of not less than 4.5 overall, may, at the discretion of the Co-operative Education Program Co-ordinator, undertake the Co-operative Education option.

This involves 10-12 months of paid full-time employment in an approved industrial/commercial environment during which time the student will be enrolled in the units Industrial Experience I (first semester) and Industrial Experience II (second semester). On completion of the approved industrial experience the student resumes formal studies.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester	1 (Autumn)		
CHB110	Analytical Chemistry I	6	3
CHB180	Physical & Inorganic Chemistry I	8	4
PHB110	Physics IA	8	3
PHB111	Physics IB	8	3
ASB101	Study Support Skills	2	1
Semester	2 (Spring)		
CHB150	Organic Chemistry I	8	4
MAB106	Professional Communication	6	3
MAB211	Mathematics IA	8	3

*Elective Strand is indicated by A Biochemistry/ Microbiology, B Computing/Electronics, or C Geology.

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Semester 3	(Autumn)			
CHB230	Inorganic Chemistry II	6	3	
CHB250	Organic Chemistry II	8	4	
MAB224	Mathematics IB	8	3	
		0	5	
Semester 4	• -			
CHB270	Physical Chemistry II	8	4	
PHB260	Physics IIG	8	4	
	Strand Subject*			
MSB101	A Microbiology I	6	3	
	OR			
CSB155	B Introduction to Computing	8	3	
	OR			
ESB220	C Mineralogy	8	3	
Semester 5	(Autumn)			
CHB370	Physical Chemistry III	8	4	
CHB430		8	3	
CSB262	Inorganic Chemistry IV	6	2	
C3B202	Computing (Strand A and C) ++ OR	0	2	
CSB281		12	3	
CSD201	Computer Systems I (Strand B)	12	3	
MSB473	Strand Subject*	6	3	
M3D473	A Biochemistry III OR	0	3	
PHB308	B Electronics I	8	3	
PHD 506	OR	0	3	
ESB320	C Mineral Assemblages	8	3	
E3B520	C Milleral Assemblages	o	5	
Semester 6	(Spring)			
CHB310	Analytical Chemistry III	8	4	
CHB340	Spectroscopy	8	3	
CHB350	Organic Chemistry III	8	4	
CHD350	organic chemistry m	U	4	
Semester 7	(Autumn)			
CHB327	Chemical Technology III	6	3	
CHB450	Organic Chemistry IV	8	4	
CHB470	Physical Chemistry IV	8	4	
CIID+/0	Thysical chemistry IV	U	,	
Semester 8	(Spring)			
CHB427	Chemical Technology IV	8	4	
CHB440	Separation Methods	8	3	
MAB227	Statistics	8	3	
	Strand Subject		-	
MSB474A	Biochemistry IV	6	3	
	OR	-		
PHB408B	Electronics II	8	3	
	OR	-	-	
ESB403C	Geochemistry	8	3	
Semester 9	(Autumn)			
CHB550		8	٨	
	Organic Chemistry V Physical Chemistry V	8	4 4	
CHB570	Strand Subject*	o	4	
MSB102A	Microbiology II	6	3	
NISD102A	OR	U	J	
PHB508B	Electronics III	8	3	
TUDJUOD	OR	0	J	
ESB520C	Applied Geochemistry	8	3	
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* Elective Strand is indicated by A, B or C. ++ Students who elect to study Elective Strand B are required to study CSB281 rather than CSB262. Students electing strands A or C study CSB262.



Semester 1	0 (Spring)		
CHB527	Chemical Technology V	8	4
CHB530	Inorganic Chemistry V	8	4 3 3
CHB590	Material Science	8	3
	Strand Subject*		
MSB103	A Microbiology III	8	3
	OR	_	_
CHB618	B Laboratory Automation	8	3
	OR	2	
ESB411	C Earth Resources	8	3
Semester 1	1 (Autumn)		
CHB510	Instrumental Analysis	8	4
CHB601-1	Project	10	4 2 2
CHF 527	Chemical Technology VI	4	2
СНь640	Chemistry VI	4	2
Semester 1	2 (Spring)		
CHB610	Advanced Analysis	4	2
CHB601-2	Project	10	6
CHB660	Industrial Visits	2 4	1
MNB040	Management	4	1
	Chemistry Elective +*		
CHB628	Energy Technology OR	6	3
CHB690	Advanced Material Science	8	3

ESJ132 Bachelor of Applied Science - Applied Geology

From 1989 no new students will be admitted to this course. Intending students are referred to the multidisciplinary BAppSc course - ASJ226 in which a major in geology can be undertaken. Continuing students who have failed subjects no longer offered should consult the course co-ordinator concerning their enrolment.

Course Duration: 6 semesters full-time

Total Credit Points: 298

Standard Credit Points/Full-Time Semester: 49.67

Special Course Requirement

Students may be required to attend intensive segments of coursework at weekends and in QUT recess periods (normally to fulfil field work requirements of the course).

Full-Time Course Structure (for continuing students only)		Credit Points	Contact Hrs/Wk
Semester 5	5 (Autumn)		
ESB513	Economic Geology V	8	4
ESB533	Exploration Geochemistry	8	4
ESB543	Petrology V	6	3
ESB593	Sedimentary Petrology	6	3
ESB563	Project V	6	3
ESB573	Field Excursions V	4	2
ESB633	Exploration Geophysics	8	3

* Elective Strand is indicated by A, B or C.

+*It is not intended that all Chemistry Elective units will be offered. Those units offered in any one year will be determined by the student demand.

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Semester 6 (Spring)				
ESB523	Hydrogeology	6	3	
ESB613	Mineragraphy & Mining Geology	6	3	
ESB603	Petroleum & Coal Geology	10	5	
ESB643	Structural Geology VI	6	3	
ESB653	Engineering Geology	8	3	
ESB663	Project VI	8	4	
ESB673	Field Excursions VI	4	2	
ESB693	Mining Property Evaluation	4	2	

MAJ133 Bachelor of Applied Science - Mathematics

Course Duration: 6 semesters full-time, 12 semesters part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Requirements

A student selects subject units from the list given below, having regard to specified prerequisites and co-requisites, and must complete:

- (a) all 14 mandatory units;
- (b) at least 14 units above first year level;
- (c) at least 48 credit points in mathematics units above second year level;
- (d) a minimum of 288 credit points.

Note: The specialisation codes shown below are MS - Mathematical Science, and IA - Information Analysis.

		Credit Points	Contact Hrs/Wk
FIRST YEA	AR LEVEL		
MAB301 MAB302 CSB155 ISB493 MAB309 MAB310 MAB317 MAB318 MAB331 MAB342 CMB106	Calculus & Analysis A* Calculus & Analysis B* Introduction to Computing* Business Computer Programming* Modern Algebra* Linear Algebra* Mathematical Statistics I* Mathematical Statistics IIA* Introductory Vector Analysis* Mathematics of Finance* Professional Communication First year elective units* First year elective units First year elective units	10 10 8 12 10 10 10 10 10 10 6 8-12 8-12 8-12 8-12	3 3 3 3 3 3 3 3 3 3 3 5 6 3-6 3-6 3-6 3-6
SECOND Y	This year elective units	0*12	3-0
MAB601 MAB612 MAB602 CSB281 MAB608	Multivariable Calculus A (MS)* Differential Equations (MS)* Multivariable Calculus C (MS) Computer Systems I (IA) Mathematical Statistics IIB (MS)	10 10 10 12 10	3 3 3 3 3

*These units are mandatory; the remainder are referred to as optional; optional units include approved elective units offered by other Departments or Schools.



MAB610 MAB618 MAB619 MAB637 MAB638 MAB635 MAB641	Applied Linear Algebra (MS) Numerical Analysis I (MS) Numerical Analysis II (MS) Operations Research IA (IA) Operations Research IB (MS) Classical Theoretical Mechanics (MS) Actuarial Mathematics (IA) Second year elective units	10 10 10 10 10 10 8-12 8-12	3 3 3 3 3 3 3 3-9 3-9
	Second year elective units	6-12	5-9
THIRD YE	AR LEVEL		
MAB906	Topics in Analysis (MS)	12	3
MAB907	Mathematical Statistics IIIA (IA)	12	3 3 3 3 3
MAB908	Mathematical Statistics IIIB (IA)	12	3
MAB913	Numerical Analysis III (MS)	12	3
MAB920	Coding & Encryption Techniques (IA)	12	3
MAB921	Methods of Mathematical		
	Physics A (MS)	12	3
MAB924	Applied Statistical Techniques (IA)	12	3
MAB927	Operations Research IIA (IA)	12	3
MAB928	Operations Research IIB (IA)	12	3 3 3 3 3
MAB929	Statistical Forecasting (IA)	12	3
MAB941	Methods of Mathematical		
	Economics (MS)	12	3
MAB960	Project Work (IA)	12	3

Elective Units

The choice of elective units will be subject to timetabling constraints, but elective groupings for which timetabling arrangements may be expected to be made will include selections from the programs offered by the following Faculties: Science, Business, Information Technology. No more than four elective units may be counted as second year level subjects. Students are required to consult the Head of School prior to initial enrolment in an elective unit.

Co-operative Education Option

A co-operative education option is available within the program after the successful completion of the equivalent of four semesters of full-time study. It involves a period of 10-12 months of paid full-time employment in an approved industrial/commercial environment. During this period, students will be enrolled in the following units: ASB330 Industrial Experience I (Semester 1); ASB430 Industrial Experience II (Semester 2).

PHJ248 Bachelor of Applied Science - Medical Radiation Technology with Strands in Medical Imaging Technology and Radiotherapy Technology

Course Duration: 6 semesters full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Co-ordinator: Assoc. Prof. Brian J. Thomas



		Credit Points	Contact Hrs/Wk
Semester 1	(Autumn)		
COMMON S			
CMB106	Professional Communication	6	3
MAB151	Quantitative Techniques	4	2
MNBIII	Introductory Psychology for		
MSB120	Health Professionals	4 6	2
PHB111	Introduction to Pathology Physics IB	8	3
PHB178	Principles of Medical Radiations	10	2 3 3 5
PNB125	Anatomy & Physiology I	10	4
Semester 2 COMMON S			
		4	n
NSB201 PHB272	Principles of Patient Care Radiation Physics I	4 12	2 5
PNB225	Anatomy & Physiology II	10	4
MEDICAL	MAGING TECHNOLOGY STRAND		
PHB275		4	2
PHB275	Processing Technology General Radiography I	4 14	2 7
PHB279	Clinical Radiography I	4	2
RADIOTHE	RAPY TECHNOLOGY STRAND		
PHB286	Treatment Planning I	6	3
PHB287	Radiotherapy Technique I	12	6
PHB289	Clinical Radiotherapy I	4	2
Semester 3 COMMON S			
MSB320	Systematic Pathology	8	3
PNB325	Regional & Sectional Anatomy	8	4
MEDICAL I	MAGING TECHNOLOGY STRAND		
PHB373	Nuclear Medicine Imaging I	4	2
PHB374	Radiographic Equipment I	6	3
PHB376	General Radiography II	12	2 3 5 5
PHB379	Clinical Radiography II	10	2
RADIOTHE	RAPY TECHNOLOGY STRAND		
PHB382	Radiotherapy Physics I	4	2
PHB386 PHB387	Treatment Planning II Megavoltage Therapy I	4 14	2 6
PHB389	Clinical Radiotherapy II	10	5
Semester 4	(Spring)		
COMMON S			2
PHB471 PHB475	Radiation Physics II Medical Radiation Computing I	4 8	2 3
		0	5
	MAGING TECHNOLOGY STRAND	4	~
MSB420	Imaging Pathology	4 4	2 2 2 3
PHB473 PHB474	Medical Ultrasound Radiographic Equipment II	4	$\frac{2}{2}$
PHB476	Special Procedures	8	3
PHB479	Clinical Radiography II	8	4
PNB425	Imaging Anatomy	8	4



RADIOTHE	RAPY TECHNOLOGY STRAND			
PHB481	Dosimetry	6	3	3
PHB482	Radiotherapy Physics II	6		3
PHB484	Principles of Treatment I	6	3	3
PHB487	Megavoltage Therapy II	10	4	1
PHB489	Clinical Radiotherapy III	8	4	1
Semester 5	(Autumn)			
COMMON S	SUBJECTS			
PHB575	Medical Radiation Computing II	8	3	3
MEDICAL I	MAGING TECHNOLOGY STRAND			
PHB572	Image Recording & Evaluation	4	2	2
PHB573	Digital Imaging Modalities	6	222	2
PHB574	Quality Assurance in Medical Imaging	6	3	3
PHB576	Advanced Radiographic Technique I	12	6	5
PHB578	Image Interpretation I	4	2	2
PHB579	Clinical Radiography IV	8	2	1
RADIOTHE	RAPY TECHNOLOGY STRAND			
PHB583	Complementary & Evolving Techniques	6	3	3
PHB584	Principles of Treatment II	4	2	3 2 3 4
PHB585	Computer Assisted Treatment Planning I	8		3
PHB587	Orthovoltage & Superficial Therapy	10		
PHB589	Clinical Radiotherapy IV	12	(6
Semester 6				
COMMON S	SUBJECTS			
MNB666	Counselling for Health Professionals	4	2	2
PHB671	Radiation Biology	4	2	2 2 3
PHB672	Project	8	-	3
MEDICAL I	MAGING TECHNOLOGY STRAND			
PHB676	Advanced Radiographic Technique II	8	-	3
PHB679	Clinical Radiography V	14	(6
DUD (00	EITHER	10		~
PHB680	Nuclear Medicine Imaging II OR	10		5
PHB681	Computed Tomography Imaging	10	:	5
RADIOTHE	RAPY TECHNOLOGY STRAND			
PHB683	Oncological Imaging	6		3
PHB685	Computer Assisted Treatment			
	Planning III	8		4
PHB687	Specialised Radiotherapy Technique	10		4
PHB689	Clinical Radiotherapy V	8		4

PHK205 Diploma of Applied Science - Diagnostic Radiography

This course has been replaced by PHJ248 BACHELOR OF APPLIED SCIENCE - MEDICAL RADIATION TECHNOLOGY. In 1990 the third year of the course is offered to continuing students only.

Standard Credit Points/Full-Time Semester: 48



Course Structure	Credit Points	Contact Hrs/Wk

Semester 5 (Autumn)

Part-time attendance in the clinical situation with part-time attendance at QUT

PHD572 PHD573	Complementary Imaging Techniques Radiographic Technique III	8 6	4 3 3
PHD574 PHD577	Radiographic Equipment III Clinical Practice IIID	6 16	3
CMB106	Professional Communication		
	OR equivalent elective	6	3
Semester 6	(Spring)		
Full-time at	tendance in the clinical situation		
PHD677	Clinical Practice IV	44	
PHD610	Advanced Radiographic Technique	4	2

PHK206 Diploma of Applied Science - Therapeutic Radiography

This course has been replaced by the course PHJ248 BACHELOR OF APPLIED SCIENCE - MEDICAL RADIATION TECHNOLOGY. In 1990 the third year of the course is offered to continuing students only.

Standard Credit Points/Full-Time Semester: 44

Course Stru	ucture	Credit Points	Contact Hrs/Wk		
Semester 5 (Autumn) Attendance in clinical situation with day release to undertake formal coursework at QUT					
Altenualice	in chinear situation with day release in	o undertake n	Annai Course work at QUT		
PHD586 PHD580	Radiotherapy Practice V Complementary & Evolving	6	3		
	Techniques I	8	4		
PHD587	Clinical Practice IVT	30	·		
Semester 6	(Spring)				
Attendance in clinical situation with day release to undertake formal coursework at QUT					
PHD680	Complementary & Evolving				
	Techniques II	6	3		
PHD471	Radiobiology & Protection	4	2		
PHD687	Clinical Practice VT	22			
CMB106	Professional Communication OR equivalent elective	6	3		

ASL225 Associate Diploma in Applied Science with strands in Biology and Chemistry

Course Duration: 4 semesters full-time, 8 semesters part-time

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48



		Course Structure common to both Strands)	Credit Points	Contact Hrs/Wk	
	Semester 1 BEA108 BEA198 CHA111 CHA145 MAA251 PHA154	(Autumn) Introductory Biology Microscopy Techniques Laboratory Techniques Introductory Chemistry Statistics & Data Processing Introductory Physics	8 8 8 8 8 8	3 3 3 3 3 3 3	
	BIOLOGY STRAND				
	Semester 2		0	2	
	BEA200 BEA202 BEA297 CHA218 CHA240 MSA113	Biology B Cell Structure & Function Biological Data Handling Analytical Chemistry I Instrumental Techniques Introductory Biochemistry	8 8 8 8 8 8	3 3 3 3 3 3 3	
	Semester 3	(Autumn)			
	BEA339 BEA349 BEA398 CHA442	Introduction to Bioculture Computer Applications in Biology Animal & Plant Techniques Introduction to Occupational Safety Electives* - two of:	8 8 12 4	3 3 4 2	
	BEA004 BEA016 BEA021 BEA060	Taxonomy Aquaculture Techniques Plant Physiology Hydrobiological Techniques	8 8 8 8	3 3 3 3	
	22.0000	or other approved electives.			
	Semester 4	(Spring)			
	BEA403 BEA405 BEA498 BEA499 MSA162	Environmental Biology Population Biology Field Techniques Applications in Electron Microscopy Microbiology II	8 8 8 8 8	3 3 3 3 3 3	
	BEA011 BEA026 CSA259	Elective* - one of: Animal Physiology Plant Cell & Tissue Culture Introduction to Computing or another approved elective.	8 8 6	3 3 2	
	CHEMISTR	Y STRAND			
~	Semester 2 CHA218		8	3	
S		Qualitative Analysis Chemistry of Inorganic Materials Physical Chemistry I Instrumental Techniques Organic Chemistry I Introduction to Computing	6 4 8 8 8 6	3 2 3 3 3 2	
,	Semester 3				
\checkmark	CHA318 CHA319 CHA370	Instrumental Analytical Chemistry Analytical Chemistry II Physical Chemistry II	8 6 6	4 3 2	
	* Can Jamas als	ould discuss their choice of electives wit	h the Strand C	o ordinator	

*Students should discuss their choice of electives with the Strand Co-ordinator.

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SCIENCE

<,	CHA320	Chemical Process Principles I	8	3
$\overline{\checkmark}$	CHA350 CHA442	Organic Chemistry II Introduction to Occupational	8	3
		Safety Elective - one of:	4	2
	CHA580	Food Chemistry I OR	8	3
	ESA310	Geology OR	8	3
	MSA161	Microbiology I OR	8	3
		any other approved elective.		
	Semester 4	(Spring)		
\checkmark	CHA368	Industrial Chemistry	8	3
	CHA670	Physical Chemistry III	8	3 3 3 3 3
	CHA410	Computers in Chemistry	8	3
\sim	CHA610	Industrial Analysis	8	3
\checkmark	CHA550	Organic Chemistry III	8	3
		Elective - one of:		
	CHA680	Food Chemistry II OR	8	3
	ESA510	Mineralogy Techniques OR	8	3
	MSA162	Microbiology II OR	8	3
	CHA520 OR	Chemical Process Principles II	8	3
\checkmark	OK	any other approved elective.		
		Course Structure	Credit	Contact
	(Semesters	1 and 2 common to both Strands)	Points	Hrs/Wk
			Points	Hrs/Wk
	Semester 1	(Autumn)		
	Semester 1 BEA108	(Autumn) Introductory Biology	8	
	Semester 1	(Autumn)		Hrs/Wk 3 3 3
	Semester 1 BEA108 CHA145	(Autumn) Introductory Biology Introductory Chemistry Introductory Physics	8 8	
	Semester 1 BEA108 CHA145 PHA154	(Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring)	8 8	3 3 3
	Semester 1 BEA108 CHA145 PHA154 Semester 2	(Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring) Microscopy Techniques	8 8 8	3 3 3 3 3
	Semester 1 BEA108 CHA145 PHA154 Semester 2 BEA198	(Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring)	8 8 8	
	Semester 1 BEA108 CHA145 PHA154 Semester 2 BEA198 CHA111 MAA251 BIOLOGY S	(Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring) Microscopy Techniques Laboratory Techniques Statistics & Data Processing	8 8 8 8	3 3 3 3 3
	Semester 1 BEA108 CHA145 PHA154 Semester 2 BEA198 CHA111 MAA251 BIOLOGY S	(Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring) Microscopy Techniques Laboratory Techniques Statistics & Data Processing	8 8 8 8	3 3 3 3 3
	Semester 1 BEA108 CHA145 PHA154 Semester 2 BEA198 CHA111 MAA251 BIOLOGY S Semester 3	(Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring) Microscopy Techniques Laboratory Techniques Statistics & Data Processing STRAND (Autumn)	8 8 8 8 8	3 3 3 3 3 3 3
	Semester 1 BEA108 CHA145 PHA154 Semester 2 BEA198 CHA111 MAA251 BIOLOGY S Semester 3 BEA202	(Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring) Microscopy Techniques Laboratory Techniques Statistics & Data Processing STRAND (Autumn) Cell Structure & Function	8 8 8 8 8 8	3 3 3 3 3 3 3
	Semester 1 BEA108 CHA145 PHA154 Semester 2 BEA198 CHA111 MAA251 BIOLOGY S Semester 3	(Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring) Microscopy Techniques Laboratory Techniques Statistics & Data Processing STRAND (Autumn)	8 8 8 8 8	3 3 3 3 3 3 3
	Semester 1 BEA108 CHA145 PHA154 Semester 2 BEA198 CHA111 MAA251 BIOLOGY S Semester 3 BEA202 BEA202 BEA297 CHA218	(Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring) Microscopy Techniques Laboratory Techniques Statistics & Data Processing STRAND (Autumn) Cell Structure & Function Biological Data Handling Analytical Chemistry I	8 8 8 8 8 8	3 3 3 3 3 3 3 3 3
	Semester 1 BEA108 CHA145 PHA154 Semester 2 BEA198 CHA111 MAA251 BIOLOGY S Semester 3 BEA202 BEA297 CHA218 Semester 4	(Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring) Microscopy Techniques Laboratory Techniques Statistics & Data Processing STRAND (Autumn) Cell Structure & Function Biological Data Handling Analytical Chemistry I (Spring)	8 8 8 8 8 8 8 8 8 8	3 3 3 3 3 3 3 3 3 3 3 3
	Semester 1 BEA108 CHA145 PHA154 Semester 2 BEA198 CHA111 MAA251 BIOLOGY S Semester 3 BEA202 BEA297 CHA218 Semester 4 CHA240	(Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring) Microscopy Techniques Laboratory Techniques Statistics & Data Processing STRAND (Autumn) Cell Structure & Function Biological Data Handling Analytical Chemistry I (Spring) Instrumental Techniques	8 8 8 8 8 8 8 8 8 8 8	3 3 3 3 3 3 3 3 3 3 3 3 3
	Semester 1 BEA108 CHA145 PHA154 Semester 2 BEA198 CHA111 MAA251 BIOLOGY S Semester 3 BEA202 BEA297 CHA218 Semester 4	(Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring) Microscopy Techniques Laboratory Techniques Statistics & Data Processing STRAND (Autumn) Cell Structure & Function Biological Data Handling Analytical Chemistry I (Spring)	8 8 8 8 8 8 8 8 8 8	3 3 3 3 3 3 3 3 3 3 3 3
	Semester 1 BEA108 CHA145 PHA154 Semester 2 BEA198 CHA111 MAA251 BIOLOGY S Semester 3 BEA202 BEA202 BEA297 CHA218 Semester 4 CHA240 MSA113	 (Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring) Microscopy Techniques Laboratory Techniques Statistics & Data Processing STRAND (Autumn) Cell Structure & Function Biological Data Handling Analytical Chemistry I (Spring) Instrumental Techniques Introductory Biochemistry Biology B 	8 8 8 8 8 8 8 8 8 8 8 8 8	3 3 3 3 3 3 3 3 3 3 3 3 3 3
	Semester 1 BEA108 CHA145 PHA154 Semester 2 BEA198 CHA111 MAA251 BIOLOGY S Semester 3 BEA202 BEA297 CHA218 Semester 4 CHA240 MSA113 BEA200 Semester 5	 (Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring) Microscopy Techniques Laboratory Techniques Statistics & Data Processing STRAND (Autumn) Cell Structure & Function Biological Data Handling Analytical Chemistry I (Spring) Instrumental Techniques Introductory Biochemistry Biology B (Autumn) 	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	Semester 1 BEA108 CHA145 PHA154 Semester 2 BEA198 CHA111 MAA251 BIOLOGY S Semester 3 BEA202 BEA297 CHA218 Semester 4 CHA240 MSA113 BEA200	 (Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring) Microscopy Techniques Laboratory Techniques Statistics & Data Processing STRAND (Autumn) Cell Structure & Function Biological Data Handling Analytical Chemistry I (Spring) Instrumental Techniques Introductory Biochemistry Biology B 	8 8 8 8 8 8 8 8 8 8 8 8 8	3 3 3 3 3 3 3 3 3 3 3 3 3 3
	Semester 1 BEA108 CHA145 PHA154 Semester 2 BEA198 CHA111 MAA251 BIOLOGY S Semester 3 BEA202 BEA297 CHA218 Semester 4 CHA240 MSA113 BEA200 Semester 5 BEA349 BEA399	 (Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring) Microscopy Techniques Laboratory Techniques Statistics & Data Processing TRAND (Autumn) Cell Structure & Function Biological Data Handling Analytical Chemistry I (Spring) Instrumental Techniques Introductory Biochemistry Biology B (Autumn) Computer Applications in Biology Applications in Electron Microscopy* 	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	Semester 1 BEA108 CHA145 PHA154 Semester 2 BEA198 CHA111 MAA251 BIOLOGY S Semester 3 BEA202 BEA297 CHA218 Semester 4 CHA240 MSA113 BEA200 Semester 5 BEA349	 (Autumn) Introductory Biology Introductory Chemistry Introductory Physics (Spring) Microscopy Techniques Laboratory Techniques Statistics & Data Processing TRAND (Autumn) Cell Structure & Function Biological Data Handling Analytical Chemistry I (Spring) Instrumental Techniques Introductory Biochemistry Biology B (Autumn) Computer Applications in Biology Applications in Electron Microscopy* 	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

* Day release will be required.



MSA162	Microbiology II	8	3
BEA403	Environmental Biology	8	3
22.1102			
Semester 7	(Autumn)		
BEA339	Introduction to Bioculture	8	3
CHA442	Introduction to Occupational Safety*	4	2
CINCIA	Electives - two of		
BEA004	Taxonomy	8	3
BEA016	Aquaculture Techniques	8	3
BEA021	Plant Physiology	8	3
BEA060	Hydrobiological Techniques	8 8 8	3
BEA090	External Project I	8	3
BEA099	External Project II	8	3 3 3 3 3 3 3
DLRO	or other approved electives.	0	-
	or other approved electrics.		
Semester 8	(Spring)		
BEA405	Population Biology+	8	3
BEA498	Field Techniques+	8	3 3
DEA490	Elective - one of:	0	2
REA011	Animal Physiology	8	З
BEA011 BEA026	Plant Cell & Tissue Culture	8	ž
	External Projects I	8	3
BEA090		8	3
BEA099	External Projects II Introduction to Computing	6	3 3 3 2
CSA259	or another approved elective.	0	2
	or another approved elective.		
CHEMISTR	Y STRAND		
Semester 3			
		8	2
CHA218	Analytical Chemistry I	8	3
CHA270	Physical Chemistry I	4	2
CHA230	Chemistry of Inorganic Materials	8	3 3 2 3
CHA250	Organic Chemistry I	0	5
Semester 4	(Spring)		
		6	3
CHA219 CHA240	Qualitative Analysis Instrumental Techniques	8	3
CHA240 CHA350		8	3 3 3
CHASSO	Organic Chemistry II	0	5
Semester 5	(Autumn)		
CHA318	Instrumental Analytical Chemistry	8	4
CHA370	Physical Chemistry II	6	2
CHA319	Analytical Chemistry II	6	3
CHAJIY	Analytical Chemistry II	0	5
Semester 6	(Spring)		
CHA550	Organic Chemistry III	8	3
CHA610	Industrial Analysis	8	ž
CHA670	Physical Chemistry III	8	3 3 3
CSA259	Introduction to Computing	6	2
CORLOY	introduction to computing	U U	-
Semester 7	(Autumn)		
CHA320	Chemical Process Principles I	8	3
CHA442	Introduction to Occupational Safety	4	ž
CIIA+12	Elective - one of:	•	-
CHA580	Food Chemistry I		
211.000	OR	8	3
ESA310	Geology	U	
20,010	OR	8	3
MSA161	Microbiology I		_
	OR	8	3
	any other approved elective.		

* Students in appropriate employment may claim exemption from this subject. + Day release (one week total) will be required for the field component of this subject.

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Semester 8 (Spring)			
CHA410	Computers in Chemistry	8	3
CHA368	Industrial Chemistry	8	3
	Elective - one of:		
CHA680	Food Chemistry II	8	3
	OR		
ESA510	Mineralogy Techniques	8	3
	OR		
MSA162	Microbiology II	8	3
	OR	_	
CHA520	Chemical Process Principles II	8	3
	or any other approved elective		

Notes:

Students in the Biology Strand may apply to have their current employment arranged and assessed in lieu of one or more electives. In such cases, the employer, in consultation with the Head of Department, will nominate an honorary supervisor to collaborate with a departmental tutor. Under such an arrangement students will be required to maintain a work log and complete such exercises and assignments as required.

Students in the Biology Strand with relevant technical experience may seek total or partial exemption from one or more of the elective units of the course.

Students will participate in excursions and field work where these form part of the curriculum. Occasionally field work may be scheduled at weekends or during QUT recess periods.

Students who commenced the course prior to 1988 should consult the Strand Co-ordinator concerning requirements to complete the course.

General Information

Telephone Numbers

Faculty of Science Office	223 2152
Office of Co-operative Education	223 2156
Department of Applied Geology	223 2324
Department of Biology	223 2494
Department of Chemistry	223 2291
School of Mathematics	223 2308
Department of Physics	223 2597

Staff

Dean: R.B. Gardiner, MA, BSc(Hons), PhD(Edin), CPhys, FInstP, FAIP Administration Officer: J. Murphy, BA(Hons)(Qld) Development Manager: K.D. Pulsford, BBus

Department of Applied Geology

Head of Department: D. Gust, MA(Rice), PhD(ANU) Principal Lecturer: L.H. Hamilton, BE, MSc(NSW), PhD(Lond), DIC, FAIG, MAusIMM Lecturers: A.V. Arakel, BSc(Shiraz), PhD(WA) D.C. O'Connell, BSc DipEd(Qld), MSc(James Cook), BEd(BCAE), FGS(Lond), AMAusIMM



W.F. Ridley, MSc(Old) G.G. Shorten, MSc(Old), TCert(Ku-ring-gai), AMAus/MM J.P. Williams, BSc(Syd), MAppSc, FRAS, MSEG, MASEG, ASEG, AMAusIMM Senior Technical Staff: W. Kwiecien, CIC, AssocDipAppChem, Senior Laboratory Technician: B.J. Feely, MIST, Tech CEI, Technician Division I **Department of Biology** Head of Department: A. Bailey, BSc(Hons)(L'pool), PhD(Adel), CBiol, MIBiol, MAIBiol, MAIH Senior Lecturer: W.A. Dodd, MSc(Adel), PhD(Alberta), MAIH J.C. Wilson, MAppSc, CBiol, MIBiol (Award for Distinguished Academic Service 1988) G.H. Yezdani, MSc(Sind), PhD (Monash), CBiol, MAIBS, MAIBiol (Award for Distinguished Academic Service 1988) Lecturers: G.J. Kelly, BSc(Hons), PhD(Svd) C.R. King, BSc(Lond), MSc(Salford), PhD(Qld), ARCATS, CBiol, MIBiol P.B. Mather, BBSc(Hons), PhD(La Trobe) B.J. McMahon, MSc(Old), CBiol, MIBiol N.A. White, MAppSc I. Williamson, BSc(Hons)(Griff), PhD(Flin)

Senior Tutor: M. Cahill, BSc(Hons).

Senior Technical Staff:

K.D. Barton, CMLT, BAppSc, Senior Laboratory Technician

E. Guindy, Laboratory Technician Division I

N. Sherwin, CBLT, Laboratory Technician Division II

Department of Chemistry

Head of Department: S.F. Dyke, PhD(Aberdeen), DSc(Lond), CChem, FRSC, FRACI Senior Lecturers: J.P. Bartley, MSc(Hons), PhD(Auck), CChem(UK), MRSC, AAIFST (Award for Distinguished Academic Service 1988) M.R. Chambers, PhD(Econ)(Stir), PhD(Lond), CChem(UK), MRSC R.L.W Frost, BEd, MSc, PhD(Old), CChem, ARACI P.S. Hallman, MSc, PhD(Syd), CChem, ARACI P.J. Hetherington, BSc(App)(Hons), PhD(Tas) E.J. O'Reilly, MSc(Qld), DipEd, CChem, FRACI Lecturers: D.P. Arnold, BSc, PhD(Old), CChem, ARACI (Award for Distinguished Academic Service 1988) N.D. Bofinger, BSc(NE), PhD(Qld), CChem, ARACI G.K. Douglas, BSc(Hons)(NE), PhD(Tas), CChem, ARACI W.J.W Hanna, BSc(Hons), PhD(Belf), CChem(UK), MRSC K.P. Herlihy, BSc(Hons)(Qld), DipIndChem, CChem, ARACI G.M. Kimber, MSc, BEd(Qld), CChem, FRACI S. Kokot, BSc(Hons), PhD(NSW), CChem, FRACI D.S. Sagatys, BSc(Hons)(Qld), PhD(IIT) D.P. Schweinsberg, ASTC, BSc(NSW), MSc, PhD(Qld), CChem, ARACI, AMAusIMM G. Smith, BSc, PhD(Qld), DipIndChem, ARACI B.N. Venzke, MSc, PhD(Qld)





Senior Technical Staff:

N.A. Seils, DipIndChem, Laboratory Manager

P. Comino, CIC, AssocDipAppChem, Senior Laboratory Technician Division II

P. Stevens, CIC, AssocDipAppChem, Senior Laboratory Technician Division II

W. Skeaf, Laboratory Technician Division I

E. Martinez, CIC, AssocDipClinLab Tech, Laboratory Technician Division I

M. Hodgkinson, CBLT, Laboratory Technician Division II

V. Beecham, Laboratory Technician Division II

A. Grudzinski, AssocDipAppChem, Technician

School of Mathematics

Head of School: A.N. Pettit, MSc(Hons), PhD(Nottingham) Senior Lecturers: V.V. Anh, BSc(Hons), PhD(Tas), MEc(NE) (Award for Distinguished Academic Service 1988) C.M. Bothwell, BSc, BEd, MLitSt(Old), ALCM J. Gudgeon, BSc(Hons)(Hull), MSc(Oxf), FIMA I.F. Ogle, MSc(NE), FSS, MSSA A.M.B. Wolanowski, MSc(Lublin), PhD(Warsaw), DipCompSc(Old), MSSA, AMACS (Award for Distinguished Academic Service 1986) Lecturers: C.C. Calder, MSc(Lond) E.P. Dawson, BSc, DipEd(Wash), MA(Svd), MLitSt, MSc(Qld) B.P. Garfoot, BSc(Hons)(N'cle, NSW), PhD(Qld) D. Huang, MSc, PhD(Peking) R.F. Hubbard, BA(NZ), MLitSt(Old) M. Ilic, MSc(Old) M.T. Kelly, BSc, DipEd, MLitSt(Old) E. Kozan, MSc(MidEastTechUniv), PhD(Hacettepe) M.R. Littler, DipMath(Tech), BSc(Hons)(Lond), AFIMA, CEng, FIMarE L.M. Scotney, BSc, DipEd(Qld) N. Spencer, BAppSc, AssocDipElecEng B.S. Tasker, BA(NE) E.M. Walker, BSc(Hons)(Qld), MSc(Oxon), AIA, AAIA D.F. Welburn, BSc(Old) Administration Officer: G. Scott, BEng(NSW), MSc(Lond), ThA(AustCollTheol), AIMM

Department of Physics

Head of Department: B.W. Thomas, MSc, PhD, DipEd(WA), FAIP, MACPSM, FAIM
Principal Lecturer: B.J. Thomas, BSc(Hons), PhD(WA), MAIP, MACPSM (Award for Distinguished Academic Service 1988)
Senior Lecturers:
J.A. Davies, BSc(Hons)(City, London), MSc(Qld), AIMEE
R.E. Dunlop, MSc(Qld), MAIP, MASUM
D.W. Field, BSc(Hons), PhD(Adel), DipT (ACAE)
B.M. O'Leary, BSc, DipEd(Syd), MSc(Surrey), MAIP
R.J. Treffene, BSc(Qld), MSc, PhD(Lond), FASMF
Lecturers:P. Best, BSc(Hons)(Bristol), PhD(Monash), MEIA
I.R. Cowling, BSc(Hons), PhD(Flinders), ISES
I.R. Edmonds, MSc(Qld), MAIP



G.H. Johnston, AssocDipElecEng, MAppSc P.D. Killen, BSc(Hons), PhD(Old) T.G. Lewis, BSc, BEd(Old), MSc(Aston), MSc(Griffith), DipRMS, MAIP W.C. Middleton, MSc, BEd(Old), MAIP, MAAS R.J. Norton, BSc(Old), MSc(Brunel), MAIP F. Quintarelli, BSc(Ed), BSc(Hons), PhD(Melb) P.A. Rowntree, DAppSc, GradDipEd(Tert)(NE), MIR C.F. Wong, DipSc(HongKong), MSc(McGill), PhD(Saskatch), MARPS, MAAPT Technologist: N.A. Raftery, BSc(Hons), BA(Old) Administration Officer: J. Dennis, BAppSc, BBus Senior Technical Staff: R. Jeffery, SMIREE, Laboratory Manager R.I. Kleinschmidt, Technician Division I D.J. Pitt, Technician Division I J.A. Jull. Senior Technician Division II G.W. Kibbey, Senior Technician Division II M.K. Power, Senior Technician Division II B. Wheeler, Senior Technician Division II N.G. Stead, Technician Division II

Prizes and Awards

AGFA-Gevaert/AIR Prize

Presented, in association with the Australian Institute of Radiography, to the student obtaining the highest marks in the first year subject Processing Technology of the Bachelor of Applied Science (Medical Imaging Technology) course.

L.G. Amos Prize

Awarded each year to the graduand from the multidisciplinary Bachelor of Applied Science with major studies in Chemistry who, in the opinion of the Head of the Department of Chemistry, obtains the best academic record over the length of the course.

Australian Laboratory Services Pty Ltd Prize

Awarded to a full-time or part-time student of the Bachelor of Applied Science - Applied Chemistry course or the multidisciplinary Bachelor of Applied Science course with major studies in Chemistry, who has the best results in the final year Analytical Chemistry subjects.

David Barry Memorial Prize

Awarded to the graduate with the best overall academic performance in the biology strand of either the Associate Diploma in Applied Science or the Bachelor of Applied Science - Biology course.

Canberra - Packard Prize

Awarded to the graduand undertaking major studies in Physics who has obtained the best academic record in the final year of the multidisciplinary Bachelor of Applied Science course.

Castlemaine Perkins Scholarship in Applied Chemistry

This scholarship is offered annually for a period of one academic year. Eligible students are those who have satisfactorily completed the third semester of the full-time program of the course Bachelor of Applied Science - Applied Chemistry. The scholarship takes the form of a stipend and a book allowance, together with periods of vacation employment. Further details of the scholarship can be obtained from the Department of Chemistry. Applications must be submitted on or before August 31 each year.



CRAE Mapping Prize

Donated by CRA Exploration Pty Ltd and awarded to the best project student in the Bachelor of Applied Science - Applied Geology course for demonstrated ability in geological mapping.

George Edward Curphey Prize in Mathematics

Awarded to the student enrolled in the Bachelor of Applied Science - Mathematics course who, in the opinion of the Head of the School of Mathematics, is the most academically outstanding graduate of the year.

George Edward Curphey Prize in Theoretical Mechanics

A warded to the student enrolled in the Bachelor of Applied Science - Mathematics course who obtains the best performance of the year in 'Classical Theoretical Mechanics', providing that the Head of School judges him/her to be of sufficiently outstanding merit.

Dupont/AIR Award

Presented, in association with the Australian Institute of Radiography, to the student achieving the best academic record in the first year of the Bachelor of Applied Science (Medical Imaging Technology) course.

Hugo Flecker Memorial Prizes

Donated by the Australasian College of Radiologists, Queensland Branch, and awarded to students in the third year of the Diploma of Applied Science - Diagnostic Radiography and the Diploma of Applied Science - Therapeutic Radiography courses respectively, who obtain the best performance in the clinical practice subjects for that year.

J.L. Forsyth Prize

Donated by Meadow Lea Foods and awarded to the student who has shown the greatest proficiency in the subjects of the fifth and sixth years of the part-time course for the Bachelor of Applied Science (Applied Chemistry).

GEC Automation/AIR Prize

The GEC Automation Prize is presented in association with the Australian Institute of Radiography and awarded to the student obtaining the highest marks in the first year subject Treatment Planning I of the Bachelor of Applied Science (Radiotherapy Technology) course.

Geological Society of Australia Medal

Awarded to the graduand who obtains the best results in the Bachelor of Applied Science - Applied Geology course.

Colin Graham Memorial Prize

Awarded from monies held in trust to the graduand from the Bachelor of Applied Science - Applied Chemistry course who, in the opinion of the Head of the Department of Chemistry, has the best academic record over the length of the course.

Haines Medical/AIR Award

Presented, in association with the Australian Institute of Radiography, to the student achieving the best academic record in the first year of the Bachelor of Applied Science (Radiotherapy Technology) course.

Hanimex/AIR Prize

Presented, in association with the Australian Institute of Radiography, to the student achieving the best academic record in the third year of the Diploma of Applied Science (Diagnostic Radiography) course.

Incitec Ltd Prize

Awarded annually to a full-time or part-time student of the Bachelor of Applied Science course in Applied Chemistry or the multidisciplinary Bachelor of Applied course with



major studies in Chemistry who, in the opinion of the Head of Department, shows at first attempt the greatest overall proficiency in the third year (Semesters 5 and 6 or the part-time equivalent) of the above courses. If no student is considered suitable in a given year, no prize will be awarded.

Julius Kruttschnitt Education Fund

This fund has been established by the Southern Queensland Branch of the Australasian Institute of Mining and Metallurgy to provide assistance to students of geology, mining, petroleum or metallurgy from any university or college of advanced education in Queensland. Grants are made to students who find themselves with monetary problems while pursuing their studies. Successful applicants must belong to the Australasian Institute of Mining and Metallurgy. The value and duration of the award are dependent on each applicant's circumstances. Applications may be made at any time during the year and should be addressed to the Honorary Secretary, Julius Kruttschnitt Education Fund, GPO Box 1433, Brisbane, Qld 4001.

Mallinckrodt/AIR Award

Presented, in association with the Australian Institute of Radiography, to the student achieving the best academic record in the second year Therapeutic class of the Baehelor of Applied Science (Radiotherapy Technology) course.

Medical Applications/AIR Prize

Presented, in association with the Australian Institute of Radiography, to the student achieving the best academic record in the third year of the Diploma of Applied Science (Therapeutic Radiography) course.

MIM Holdings Limited Prize

Awarded to the student who obtains the highest mark in the subject 'Field Excursions VI' in the Bachelor of Applied Science - Applied Geology course.

Mining and Metallurgical Bursaries Fund Prizes

Donated by the Australasian Institute of Mining and Metallurgy and awarded to the students of the Bachelor of Applied Science - Applied Geology course who show the most outstanding potential in completing the course.

Oil and Colour Chemists' Association, Australia (Queensland Section) Prize

Awarded to a final year student enrolled in a course within the Department of Chemistry who has obtained the best results in Materials Science studies in the final year of Applied Chemistry, covering Materials Science I and II.

PESA (Qld) Geology Award

Awarded to the student who obtains the highest results for the third year geology subjects relating to the petroleum industry.

Physics Staff Prize

Awarded to the student completing the second year of the multidisciplinary Bachelor of Applied Science course, and undertaking major studies in Physics, who obtains the best academic record for that year.

Prospectors Supplies Pty Ltd Prize

Awarded to the first year student of the Bachelor of Applied Science Geology course who obtains the highest aggregate marks for the year.

Royal Australian Chemical Institute Queensland Branch Prize

Awarded to the student showing, at the first attempt, the greatest proficiency in the second year of the full-time course (or its part-time equivalent) leading either to the Bachelor of Applied Science (Applied Chemistry) or to the multidisciplinary Bachelor of Applied Science with major studies in Chemistry.



Schering/AIR Award

Presented, in association with the Australian Institute of Radiography, to the student achieving the best academic record in the second year Diagnostic class of the Bachelor of Applied Science (Medical Imaging Technology) course.

Charles O. Schloman Memorial Prize

Donated by Astra Panels Pty Ltd, and awarded to the student undertaking the Bachelor of Applied Science (Applied Chemistry) or the chemistry major of the multidisciplinary Bachelor of Applied Science who, in the opinion of the Head of Department, shows at the first attempt the greatest overall proficiency in the second year Organic Chemistry units of the full-time course (or its part-time equivalent). If no student is considered suitable for the award in a given year, no prize will be awarded.

Byron Watkins Prize

Awarded annually in honour of Mr Byron Watkins, the foundation Chief Instructor of the Chemistry Department of the former Central Technical College. The award is sponsored by the Industrial and Applied Chemistry Past Students' Association.

It is made to the graduating student in the Chemistry strand of the Associate Diploma in Applied Science course, who shows the highest level of achievement during the course.

Winthrop/AIR Travelling Fellowship

Presented, in association with the Australian Institute of Radiography, to the graduand of the Diploma of Applied Science (Diagnostic or Therapeutic Radiography) who achieves the best academic record over the three year course.



POLICIES, PROCEDURES, RULES AND REGULATIONS FOR STUDENTS



POLICIES, PROCEDURES, RULES AND REGULATIONS FOR STUDENTS

The following policies, procedures, rules and regulations apply to students at QUT in 1990. For definitions of the terms used, see page 314.

Admission of Students

Admission to QUT courses is determined on the basis of merit and, in the case of special groups, perceived probability of success. Provision is made for alternative entry for poorly represented community groups. For most of QUT's courses, demand is far in excess of available places, and quotas are imposed.

1. Responsible Officers

The Registrar is authorised to administer policies in relation to the admission and enrolment of students.

2. Method of Application

Method of application depends on whether a course is postgraduate or undergraduate.

Applications for undergraduate courses are processed by the Queensland Tertiary Admissions Centre (QTAC) in the University's admission period from September to January of the following year. For other than Year 12 candidates, application forms can be obtained from QTAC or from QUT. Applications lodged after the closing date attract a late fee.

Applications for postgraduate courses are handled by QUT's Admissions and Services Section. Applications accepted after the published closing date may attract a late fee. Priority may be given to applications submitted by the closing date.

Closing dates for admission applications are published in the academic Calendar.

3. Selection of Candidates

Candidates are selected on the basis of one or more of the following criteria:

- □ minimum entry requirements
- □ academic merit and application of quotas
- special provisions
- special consideration
- □ mature age entry.
- (a) Minimum entry requirements

To qualify for normal entry to an undergraduate course an applicant must fulfil the requirements for the particular course. These are included in the *Admission Procedures Booklet*.

To qualify for normal entry to a postgraduate course an applicant must have completed an acceptable tertiary undergraduate course. Some postgraduate courses require completion of specific prior studies and relevant work experience. Refer to specific course entry requirements.

In many courses demand exceeds available places. Consequently eligible applicants who meet minimum entry standards may not be offered a place at QUT.



(b) Academic merit and application of quotas

Students who meet minimum entry requirements are normally selected on the basis of academic merit.

Academic merit is measured in terms of Tertiary Entrance (TE) Scores or Notional Selection Scores.

TE Scores are allocated by the Board of Secondary School Studies to students who completed Year 12 in 1974 and later years under the Queensland Radford and ROSBA systems. Students completing Year 12 in the current year will receive notification of their TE Scores in December. Selection of school leavers from eligible applicants for most undergraduate courses is on the basis of TE Score alone.

A Notional Selection Score may be allocated to an applicant who does not have a TE Score or who has a TE Score plus subsequent tertiary or further Senior study. Notional scores are calculated on the basis of academic background according to prescribed admission schedules (see Admission Procedures Booklet).

In addition, applicants awarded TE Scores between 1974 and 1987 may be allocated the nearest Notional Selection Score in order to distinguish them from school leavers.

(c) Special provisions

For some courses, special provisions relate to selection. These include the residency requirements and subquota limitations for the part-time internal or external LLB course.

(d) Special consideration

Applicants who do not possess an academic background assessable according to normal criteria may be assessed on the basis of a combination of academic results, relevant experience and training or on experience and training alone.

Applications are made through QTAC in the normal way. Appropriate documentation must be provided by applicants.

(e) Mature age entry

A mature age entry scheme operates within all faculties at QUT. Applicants must be 25 years of age or older and must not have completed normal matriculation (Year 12) or attempted a tertiary course of study. Through this scheme, the University enables persons of mature age lacking formal qualifications to establish their eligibility to enrol. Selection criteria vary for different courses. Admission is dependent on satisfactory performance in a number of specially designed aptitude tests.

Applications are made through QTAC in the normal way, but must be submitted by the closing date. Late applications are not referred to QUT for consideration.

4. Offers

Offers of a quota place at QUT are made by the Registrar or by the Queensland Tertiary Admissions Centre acting on QUT's behalf. The Registrar may authorise a QUT officer to make offers in the Registrar's name.

5. Authority to Cancel Offers

The Registrar has the right to withdraw any offer of admission and cancel the enrolment of any person where the offer was made on the basis of incomplete or inaccurate information supplied by the applicant or a certifying authority.

6. Exclusion from a Tertiary Institution

The University reserves the right to refuse entry to any applicant who has been excluded from any course within a tertiary institution or who becomes liable for exclusion while his or her application is being considered.



7. Deferment of Offer of Admission

Students offered a place in undergraduate courses may apply for deferment at the time they complete the response to offer. Deferment of enrolment will not be approved in any Faculty of Business course. Normally, deferment is not approved in Faculty of Built Environment courses. For other faculties, applications are considered on their merit. The Faculties of Health Science and Law permit deferment only in exceptional circumstances.

8. Disabilities and Health Problems

Applicants with physical disabilities or health problems who may require special assistance or support during their studies should contact the Admissions and Services Section or the QUT Counselling Centre.

A campus access guide and information booklet is available from the Admissions and Services Section.

9. Preparatory or Enabling Programs

Applicants who wish to enter a tertiary course requiring a mathematics/science background but who are deficient in these areas may achieve eligibility by means of semester length continuing education courses in Chemistry, Mathematics and Physics. Successful completion of these bridging subjects guarantees entry to selected courses in the Faculty of Science and aids entry to other QUT courses.

10. "New Opportunities in Tertiary Education" - Participation Program

This program seeks to increase participation of women in engineering, science and the technologies. The program involves a preparatory year of part-time study in the basic sciences and engineering skills. In addition, some subjects from the student's chosen degree or associate diploma course, which are supplemented by tutorials and other assistance, are included in the program. Successful completion of the program will give eligibility for entry to selected degree and associate diploma courses.

11. Admission with Advanced Standing

(a) Students new to QUT

Applicants new to QUT seeking admission with credit for study undertaken at another institution apply for quota entry through QTAC in the normal way.

Exemptions from particular subjects are considered after the offer of a quota place is accepted (see "Enrolment of Students" section 16 on Exemptions).

(b) Current QUT students

Current QUT students who wish to change courses should refer to "Enrolment of Students" section 8. Students wishing to change attendance mode from part-time to full-time in a course should refer to "Enrolment of Students" section 9.

12. Admission of Overseas Students

QUT admits fee-paying overseas students in accordance with Federal Government policy.

An overseas applicant is an applicant who is not an Australian or New Zealand citizen, a migrant holding a visa having permanent resident status in Australia, or a temporary resident with an entry visa for work purposes. Overseas applicants must comply with Australian Government visa requirements.

13. Unregistered Students (Non-Award Students)

Applications may be made to QUT for admission as an unregistered student in order to undertake miscellaneous subjects rather than to complete an award course.



Unregistered students are defined as those students who undertake individual subjects from accredited University award courses and receive normal instruction, assessment and examination results in such subjects but are not registered to undertake a complete award course.

- (a) There are two categories of unregistered students:
- □ Cross-institution students who undertake subjects at the University to count for credit in an award course at another institution
- □ Visiting students who undertake individual subjects from award courses for means of professional or personal development.

Unregistered students are required to pay a tuition fee as set by the Registrar and which is at least equivalent to the charge which a registered student is liable for under the Higher Education Contribution Scheme. If the student cancels enrolment in the subject prior to the final date for cancellation of enrolment specified in the academic Calendar, the tuition fee less a processing fee of \$30 per subject shall be refunded.

(b) Applications

Unregistered students are required to make application for each semester in which study is sought.

An application for admission as a cross-institution student must be accompanied by documentary evidence from a recognised institution of higher education that the proposed subject/s are accepted for credit in a course offered by the institution.

An application for admission as a visiting student must be made on the prescribed form and lodged no later than the first day of the semester in which the study is to be undertaken. The application must be accompanied by the appropriate tuition fee.

An application for admission as an unregistered student may be rejected if the applicant does not have an educational background appropriate to the subject/s applied for, or if there are insufficient places remaining in the class.

(c) Other restrictions

An unregistered student is not permitted to accumulate credits for subjects totalling more than 20% of the credit points of an award course except in special cases approved by the Registrar.

Where a registered student is excluded from a course, the student shall not be permitted to enrol as an unregistered student in any subject of that course except at the discretion of the Dean of Faculty responsible for the course.

Enrolment of Students

1. Enrolment (Commencing Students)

A commencing student is enrolled on completion of all the following:

- application for admission
- □ acceptance of the offer of a quota place in terms of the conditions prescribed
- □ submission of a completed enrolment form and its acceptance by QUT
- payment of prescribed fees (unless the Registrar has granted an extension of time on such payment and has accepted the enrolment subject to payment at a later prescribed date)
- □ submission of a completed HECS payment option form.



2. Re-enrolment (Continuing Students)

A continuing student is required to lodge a re-enrolment form each calendar year.

- A continuing student is considered to be re-enrolled on completion of the following:
- □ submission of a completed re-enrolment form and its acceptance by QUT
- payment of prescribed fees unless the Registrar has granted an extension of time on such payment and has accepted the enrolment subject to payment at a later prescribed date.

Students are required to re-enrol by the closing date for lodgement of re-enrolment forms. An enrolment form lodged after the closing date may be accepted at the discretion of the Registrar on payment of a late fee.

3. Mailing Address

A student is required to provide a reliable mailing address for correspondence with QUT. A student must promptly notify QUT of a change of address. Failure to receive a notice because of change of address is not sufficient excuse for missing a deadline or an obligation.

4. Personal Information

A student is obliged to provide personal information for statistical purposes as required by the Commonwealth Government.

5. Failure to Enrol Following Admission

Normally, where a commencing student fails to enrol for the semester by the date specified in the University's letter of offer, the enrolment lapses and withdrawal of application for admission is assumed.

Late enrolments may be accepted only if a vacancy exists in classes established on the basis of closing date enrolments and with the approval of the Registrar. If the enrolment is accepted a late fee may be levied.

6. Re-enrolment Following a Period of Non-Attendance

Students are expected to proceed through their course without interruption.

Students who have allowed their enrolment to lapse and who have completed less than one year of study:

- □ if such students have not been granted leave of absence or deferment they must apply through QTAC for a place in the quota in order to gain re-admission to the course
- □ if such students have been granted approved Leave of Absence (refer "Enrolment of Students" section 12) they may re-enrol in their course at the end of the period of leave.

Students who have allowed their enrolment to lapse and who have completed more than one year of their course and who seek to re-enrol in the same course should make application to the Registrar on a Lapsed Enrolment Form prior to the published closing date.

Students wishing to return to study in a different course following a period of absence must apply through QTAC.

A student who is permitted to re-enrol following a period of absence shall be required to satisfy the course requirements which apply at the time of resumption. Depending on the length of the absence and on changes to course content and structure during the



intervening period, the student may not retain credit for all subjects completed prior to the absence. The Head of School may require a student to repeat subjects which have been passed previously or to undertake additional subjects in order to satisfy the current course requirements.

7. Re-enrolment After Exclusion

Re-admission after exclusion is not granted until at least four semesters have elapsed since exclusion.

A student seeking re-admission to the same course, or to any other course from which he or she has been excluded from further enrolment as a result of unsatisfactory academic performance, must apply for re-enrolment directly to QUT on a Lapsed Enrolment Form. The student must also attach a written statement to support the application for re-enrolment. It should include factors such as changed circumstances, academic and or vocational performance since exclusion, maturity and motivation. Applications for re-admission after exclusion require the approval of the relevant Academic Board.

Such an application should be made to the Registrar not later than two months prior to commencement of classes in the semester.

Students readmitted after exclusion are placed on probationary enrolment for the remainder of the academic year. If in that time the student has achieved a grade point average of less than 3.5 the student may be excluded.

8. Change of Course

(a) Change of course within a faculty

QUT students currently enrolled in an undergraduate course who wish to change to a like course at the same or lower level within the same faculty, including from a combined degree to either of the component courses, may apply to change course providing they meet the requirements for admission to the course they are seeking to enter. That is, students must satisfy prerequisite subject requirements and must have a TE Score which is at least equal to the quota cut-off level that applied to the course at the latest admission period. The TE Score may be adjusted to take account of tertiary study in accordance with approved Admissions Schedules. The application is made to QUT and must be lodged by the closing date given in the QUT academic calendar.

(b) Change of course between faculties

Currently enrolled QUT students seeking to change courses between two faculties or seeking to escalate to a higher level course must apply for quota entry to the course through the Queensland Tertiary Admissions Centre.

(c) Change of course for postgraduate students

Postgraduate students seeking to change course must complete a postgraduate admission form.

9. Attendance Type

(a) Full-time students are students who are enrolled for the semester in 75% or more of the standard credit points for a full-time semester of the course.

Part-time students are students who are enrolled for the semester in less than 75% of the standard credit points for a full-time semester of the course.

- (b) External students are students undertaking a course by external (correspondence) study. External students normally reside outside the Brisbane Statistical Area.
- (c) Students who accept an offer of admission to a course as a part-time student must enrol in a study program which classifies them as a part-time student.



(d) Change of attendance type

Students may change from part-time to full-time attendance type if they have been enrolled part-time for four or more semesters in the course or if their TE Score is at least equal to the quota cut off level for the full time course at the latest admission period.

Students may change from full-time to part-time except if the course is only offered on a full-time basis in which case special approval is required.

10. Nomination of Enrolment Program

(a) Orderly progression

Courses should be completed in an orderly manner as described in the course structure, subject to prerequisites and co-requisite conditions and class timetables. A student may not enrol in a subject if there are subjects in an earlier semester of the course structure which the student has not completed. This requirement is subject to pre- and co-requisite conditions and timetable availability.

(b) Maximum/minimum semester load

Except with the approval of the Head of School, a full-time student shall not enrol for a program which exceeds the standard credit points/full-time semester for the course or the number of credit points allocated to the semester of the course from which the majority of subjects have been selected, whichever is the greater.

Except with the approval of the Head of School, a part-time student shall enrol in a program totalling at least 20 credit points for a semester.

(c) Prerequisites and co-requisites

A prerequisite subject is one which must be passed before proceeding to a further subject which has the prerequisite so specified. A co-requisite is one which, if not previously passed, must be studied concurrently with another subject with which it is a co-requisite. Where a prerequisite or co-requisite is designated as a repeat-requisite (indicated by the post-script [R]), the prerequisite or co-requisite requirement may be satisfied by the student having attempted the subject without having achieved a passing grade. For the purpose of this provision a student is deemed to have attempted the subject if all assessment requirements have been attempted when registered for the subject. This provision allows for a student to proceed to a subject while repeating its prerequisite.

(d) Right to amend enrolment programs

A Head of School may amend a student's enrolment program for any of the following reasons:

- credit points exceeding the maximum allowed
- credit points less than the minimum allowed
- □ timetable incompatibility
- □ noncompliance with course rules.

Students have right of appeal to the relevant Dean of Faculty. Such appeals must be lodged with the Registrar within 14 days of notification of amended enrolment. The Registrar notifies applicants of results of appeals.

11. Changes to Enrolment Program

Students are responsible for advising the Registrar of all changes to their enrolment program. Students may only receive a result for subjects in which they have been officially enrolled.

(a) Addition/substitution of subjects



Students may add subjects to their existing enrolment program up to and including the date published in the academic Calendar as the final date for additions and substitutions of subjects.

Requests received after the published date are only approved in exceptional circumstances as determined by the Registrar or relevant Head of School. Addition of subjects after the published date is subject to the payment of a late fee.

(b) Cancellation of subjects

Students may cancel their enrolment in subjects - except if the cancellation results in an enrolment program which has fewer credit points than the minimum allowable.

For subjects cancelled up to and including the date published in the academic Calendar as the final date for cancellation of subjects without penalty, no result will be applied to the student's academic record.

Subjects cancelled after the published date are awarded a Fail-Late Cancellation (K) result, unless the Registrar, on advice from the faculty, is satisfied that because of medical, compassionate or other exceptional circumstances, cancellation should be granted without penalty.

12. Leave of Absence

Students are eligible to apply for leave of absence from studies if at the time of application they have not successfully completed all first year subjects listed in the course structure, full-time or part-time depending on the student's attendance type.

While leave of absence may be granted after the final date for cancellation of subjects without academic penalty, a Fail-Late Cancellation result will still be awarded.

Leave of absence is subject to approval by the relevant Dean of Faculty.

At the end of a period of leave of absence students must obtain and lodge relevant forms. They must re-enrol or apply for an extension of leave. Otherwise, registration lapses.

Leave of absence is not normally granted for periods in excess of one year.

Students who have already successfully completed all first year subjects and whose enrolment has lapsed because of withdrawal or failure to re-enrol may apply for re-enrolment in the course (see "Enrolment of Students" section 6).

13. Cancellation of Enrolment

Students may cancel their enrolment in a course at any time. For cancellations made up to and including the date published in the academic Calendar for cancellation of subjects without penalty, students are not awarded grades. For cancellations made after this date students are awarded Fail-Late Cancellation (K) results for all subjects in which they were enrolled.

14. Field Trips

Students are expected to attend all field trips associated with their course as approved by the relevant Academic Board.

Students should note that failure to attend field trips will adversely affect assessment in the relevant subjects.

15. Dress

Students may be required by Faculty Academic Boards to wear appropriate attire whilst engaged in work associated with their course. Students must also comply with all safety requirements whilst engaged in work associated with their course.



16. Exemptions

A student who has completed a program considered by the Head of School responsible for the course as being an adequate and relevant substitute for a subject in a course, may be granted exemption from that subject. The Head of School may grant a block exemption of a fixed number of credit points where the student is exempted from a specified fraction of the course.

(a) Application for exemption

An application for exemption must be made prior to dates published in the academic Calendar and determined at the time of a student's first enrolment in a course, unless specific provisions are made in course rules, or exceptional circumstances as determined by the Registrar apply.

An application for exemption based on study taken at an institution other than QUT must be accompanied by documentary evidence of the curriculum undertaken and the student's level of achievement.

(b) Maximum number of exemptions

For courses which exceed two semesters full-time or four semesters part-time, exemptions may be granted up to a limit which ensures that students complete at least the equivalent of two semesters full-time study at QUT.

For courses which do not exceed two semesters full-time or four semesters part-time, exemptions may be granted up to a limit which ensures that students complete, at QUT, subjects which aggregate to 75% or more of the total credit points of the course.

Where a student has gained an award in one QUT course, in order to qualify for the second or subsequent award, that student must complete at least the equivalent of two semesters of full-time study, or 75% of the total credit points, depending on the length of the course, while enrolled in the second or subsequent course.

(c) If exemptions granted comprise 50% or more of a course program, the Head of School must provide the Registrar with details of the subjects to be undertaken in order to complete the course. The Registrar shall advise the student of these requirements.

17. Requirements for Graduation

To satisfy the requirements for graduation in a course, a student shall obtain a grade of 3 (Low Pass) or better in all the subjects set out in the course structure and shall complete such other special course requirements specified for the course in the Handbook, except that a student is not permitted to have a grade of 3 in subjects totalling more than 12% of the total course credit points.

Academic Boards may specify that in certain subjects a grade of 4 or better must be obtained in order to satisfy the course requirements.

18. Maximum Time Limits for Completion of Course

Students are expected to progress with minimum interruption towards completion of their course.

To be eligible for an award, a student must successfully complete all requirements specified in rules for the relevant course within a maximum number of calendar years as follows:



Course Level

Maximum Completion Time

Master degree courses by coursework	6 years
PhD and Master degree courses by research and thesis	as per course rules
Bachelor degree and diploma courses	10 years
Combined degree courses	11 years
Graduate diploma courses (except three-year part-time graduate diploma cou	urses) 4 years
Three-year part-time graduate diploma courses	5 years
Associate Diploma Courses	7 years

Time limits are measured in calendar years from the first day of the first semester in which a student completed a valid semester of enrolment. Periods of exclusion or absence with or without approval are included.

If a student reaches the maximum time limit for a course and has not completed the course, he or she is excluded from further enrolment in the course. Students excluded because of failure to complete a course within time limits have right of appeal to the Academic Appeals Committee. See policy on "Unsatisfactory Academic Performance".

Examinations

Responsibility for Setting Assessment Provisions

1. Authority to Prescribe Assessment Provisions

Schools and departments prescribe assessment in the subjects they offer. Assessment is approved by the Academic Board to which a school is attached. An Academic Board may delegate responsibility for approving subject assessment to a committee of the board.

2. Notifying Students of Assessment Requirements

- (a) Students must be notified in writing of assessment requirements within a reasonable period of commencement of a subject, including weight and timing of individual items, and any items for which a pass is required to pass the subject.
- (b) A student who submits work for assessment after the formally notified due date may be penalised in accordance with faculty policy unless, prior to the due date, the student applies in writing to the examiner responsible for the subject for an extension of time in which to submit the work and is granted such an extension in writing.

Organisation of Examinations

3. Periods for examinations

- (a) The periods within the academic year to be set aside for Central Examinations, Supplementary Examinations and Deferred Examinations will be determined by Council and published in the University *Calendar*.
- (b) Departmental examinations may be held at any time during the teaching semester provided that agreement is made with any other schools or departments that might be affected by timing and, where appropriate, by agreement with the Registrar.
- (c) Examinations other than deferred or supplementary examinations must not be held during recess or examination preparation periods without specific approval from the Registrar.

4. Accommodation

The Registrar has first call on teaching accommodation during central examination periods.



5. Appointment of Examiners

The names of all chief examiners and examiners for the current semester shall be forwarded to the Examinations Officer upon request.

6. Submission of Central Examination Papers

When the type of assessment in a subject has been advised by the Head of School, the examiner is requested to submit his/her central examination paper drafts for wordprocessing. Papers must be submitted by the due date, which is approximately five weeks before the start of the end-of-semester examination period.

7. Timetables

- (a) Examination timetables are compiled by the Examinations Officer and placed on the main University notice boards, at the George Street entrance to campus, at least three weeks prior to commencement of examinations. Students are responsible for notifying the Examinations Officer of any timetable clashes as soon as possible. Changes cannot be considered once student examination timetable forms have been produced/distributed.
- (b) Heads of School are responsible for the preparation and publication on school notice boards of an examination timetable for departmentally conducted examinations. Students are responsible for notifying the Head of School of any timetable clashes as soon as possible.
- (c) All students are officially advised of their timetable by way of a "student examination form" which lists current subjects together with time, date and duration of all assessment items having central examinations. In the case of a subject without central assessment items, the message "NO CENTRAL EXAMINATION" will appear.

8. Student Examination Form

Students must take this form to all examinations and produce it on request.

Eligibility to Undertake Assessment Provisions

9. Eligibility to Undertake Assessment

A student currently enrolled in a subject is eligible to undertake all assessment for the subject, except as follows:

- (a) A Head of School may declare a student ineligible to sit for an examination if the student has failed to fulfil special course requirements as set out in the Handbook.
- (b) On the advice of a Head of School, the Registrar shall notify a student of his or her ineligibility to sit for an examination. The student shall be given opportunity to show cause why ineligibility should not be confirmed.
- (c) Cases where students show cause are referred to the relevant Dean of Faculty for a determination.
- (d) If the Dean of Faculty confirms that the student is ineligible to sit for the examination, the student shall have right of appeal to the Vice-Chancellor whose decision is final.

10. Voluntary Withdrawal from Enrolment in Subjects

(a) Students who cancel enrolment in a subject by the final date for cancellation of subjects without penalty shall not receive any result for the subject.



- (b) Students who cancel enrolment in a subject after the final date for cancellation of subjects without penalty and before the end of the semester shall receive the result (K) - "Fail Late Cancellation", except as follows:
- (c) On the advice of the faculty, the Registrar may determine that medical, compassionate or other exceptional circumstances necessitate a student cancelling a subject without penalty even though the final date has expired.

Deferred Examinations and Special Consideration

11. Non-Attendance

All decisions on deferred examinations and special consideration are made by the Dean of Faculty and in accordance with the faculty policy.

- (a) Students who enrol in a course must ensure that they are available during the entire examination period which includes Saturdays.
- (b) A student who fails to attend an examination fails the examination unless he or she is granted a deferred examination.

12. Deferred Examination

- (a) A student may apply to sit for a deferred examination if, for medical or compassionate reasons or in other circumstances beyond the student's control, he or she was or will be unable to sit for the examination.
- (b) An application, including the documentation detailed in Examination Rule 14, must be made to the Registrar as soon as practicable and not later than the date shown in the University *Calendar* as the closing date for lodgement of deferred examination applications.
- (c) A deferred examination may be refused at the dean's discretion and in accordance with the faculty policy. Such decisions shall be advised to the Registrar who will inform the student.
- (d) Normally, deferred examinations are not granted to candidates who misread examination timetables.

13. Special Consideration of Factors Affecting Examination Performance

- (a) Candidates who consider that their performance in an examination was adversely affected by illness, disability, bereavement, or other exceptional circumstances beyond their control, may apply to the Registrar for special consideration when assessing examination results.
- (b) An application, including the documentation detailed in Examination Rule 14, must be lodged as soon as practicable and not later than the date shown in the University *Calendar* as the closing date for lodgement of applications for special consideration.
- (c) Applications are referred to the relevant Dean of Faculty for determination. Deans may refer applications to the chief examiner who, in consultation with the appropriate examiners, may make recommendation on results in the light of exceptional circumstances.

14. Documentation Required for Deferred Examination or Special Consideration

- (a) Candidates applying for a deferred examination or special consideration on medical grounds must submit a medical certificate from a registered medical or dental practitioner stating:
- □ the date on which the practitioner examined the student;



- □ the nature, severity and duration of the complaint;
- □ the practitioner's opinion of the effect of the complaint on the student's ability to sit for, or perform satisfactorily in, an examination.

A statement that a student was "not fit for duty" or was suffering from a "medical condition" will not be accepted.

- (b) Candidates applying for a deferred examination or special consideration on other than medical grounds must submit with the application a statutory declaration stating the disability or exceptional circumstances which:
- prevented or will prevent the student from sitting for the examination in the case of an application for a deferred examination;
- □ fected the candidate's performance in the examination in the case of application for special consideration.

The candidate should also supply any corroborative evidence in support of the application.

(c) A deferred examination is regarded as a significant concession to a student and, as such, will only be granted when a properly documented and timely case is made by the applicant. Students should not expect to be granted an unlimited number of deferred examinations.

Conduct of Examinations

15. Responsibility for Conduct of Examinations

- (a) The Registrar shall be responsible for the conduct of all central examinations in accordance with the rules contained in this section.
- (b) The relevant Head of School shall be responsible to the Registrar for the conduct of departmental examinations in accordance with the rules contained in this section.

16. Entry to Examination Rooms

- (a) All persons entering an examination room must provide proof of identity to the supervisor.
- (b) A person, other than the candidate, supervisor, chief examiner or chief examiner's nominee, Head of School, Registrar or Registrar's nominee, may not, except with the permission of the supervisor, enter an examination room during an examination session.
- (c) Except with the permission of a supervisor, no person other than a supervisor, the Registrar or the Registrar's nominee, may enter an examination room during the period of 45 minutes immediately preceding an examination session set down for that room.
- (d) A person, whether a candidate or not, who is given permission to enter or leave an examination room shall comply with all conditions on which the permission is given.

17. Identification

A candidate shall bring to the examination room the Student Examination Form and Student Card provided to each student and shall produce or keep displayed such information in accordance with any direction given by notice displayed in the examination room, by direction on an examination book, by a supervisor or otherwise.



18. Places

A candidate for an examination shall, upon entering an examination room, proceed without delay to such place as the candidate is, or has been directed by a supervisor or by notice or other means, to occupy for that examination and shall not leave that place except with the permission or by the direction of a supervisor. A supervisor may at any time direct a candidate to leave any such place and to occupy another place specified by the supervisor, and a candidate shall without delay comply with any such direction.

19. Time for Departure

- (a) A candidate may not leave an examination room before the end of the examination session without the permission of a supervisor.
- (b) Except in exceptional circumstances, permission to leave an examination room will not be granted before the expiration of half the working duration of the examination.

20. Candidates Not to Remove Papers

A candidate shall not remove from the examination room any worked script or other paper provided for use during the course of the examination (other than the question paper supplied where this is authorised by the supervisor on advice from the examiner) or other material which is the property of the University.

21. Cheating

Students are expected to exhibit honesty and ethical behaviour in undertaking assessment requirements of subjects.

- (a) A candidate shall not cheat or attempt to cheat in any examination.
- (b) A person whether a candidate or not shall not do anything intended to assist any other person sitting for an examination to cheat or otherwise defeat the purposes of the examination.

22. Candidate Not to Communicate with Others

A candidate shall not during an examination session communicate by word or otherwise with any other person except a supervisor, examiner or examiner's nominee, or assist any other person to communicate with another person, or willingly receive a communication from any person other than a supervisor, examiner or examiner's nominee.

23. Unauthorised Material Not to be Brought into the Examination Room

A candidate shall not bring into an examination room anything whatsoever which conveys or is capable of conveying information concerning, or otherwise has reference to, any subject, or is such that it may reasonably give rise to suspicion that it is capable of conveying information concerning, or of having reference to, any subject, or that it was intended by the candidate to do so. It is immaterial that the subject is not a subject to which the examination relates.

It shall be sufficient answer to any alleged breach of this rule if the candidate establishes that anything brought by the candidate into an examination room was:

- (a) declared as permissible by the examiner and is so indicated on the examination paper, or
- (b) brought in with the permission of the supervisor, or
- (c) deposited by the candidate within the room forthwith after entering it at a place designated by the supervisor as a place where such thing may be deposited.



24. Candidate to Comply with Directions

- (a) A candidate shall comply with all directions to candidates set out on the examination book or such other examination material supplied, or set out on any notice displayed in the examination room, and shall without delay comply with any reasonable direction given by the supervisor.
- (b) A candidate's behaviour shall not be such as to disturb or distract or adversely affect any other candidate.
- (c) In the event of breach or default by a candidate under or in respect of 24(a) or 24(b) the supervisor may require the offending candidate to leave the examination room and failure by the candidate to do so shall be deemed to be a breach of discipline and the student may be dealt with under the appropriate Bylaw.
- (d) All such exclusions shall be reported immediately to the Registrar, or, in his absence, the Deputy Registrar or officer designated by the Registrar to conduct the examination, and the Registrar, Deputy Registrar or other officer, after hearing the supervisor, the candidate and any relevant evidence, may either confirm or rescind the exclusion.

25. Supervisors Powers of Inspection and Enquiry

- (a) A supervisor may require a candidate to show by such means as the supervisor may specify, and as the supervisor considers appropriate to the circumstances, that the candidate does not possess or in any way have available any such thing as is specified under Examination Rule 22 or that the candidate is not committing or has not committed a breach of Examination Rules 20 or 21 and the candidate shall comply without delay with such requirement.
- (b) If a supervisor considers that unauthorised material has been brought into the examination room, the supervisor may confiscate such material together with worked scripts completed to that time. The supervisor shall submit any material so confiscated to the Registrar or the Registrar's nominee for investigation.

26. Plagiarism

A student shall not plagiarise in any assessment exercise.

Plagiarism is the act of taking and using another's work as one's own. Where plagiarism occurs in items of assessment contributing to the result in a subject, it shall be regarded as, and treated in the same manner as, cheating in an examination. For the purpose of these rules any of the following acts constitute plagiarism unless the work is acknowledged:

- (a) copying the work of another student;
- (b) directly copying any part of another's work;
- (c) summarising the work of another;
- (d) using or developing an idea or thesis derived from another person's work;
- (e) using experimental results obtained by another.

Penalty for Breach of Rules

27. Penalties

(a) If a candidate commits a breach of any rule contained in the sections dealing with the 'conduct of examinations' and 'plagiarism', the candidate may be dealt with under the Student Discipline Bylaw.



(b) A candidate who commits a breach of a rule contained in the aforementioned sections of these rules shall be liable, in addition to any other penalty, to incur the following penalties.

For a first breach -

- (i) the award of a low fail result in the subject concerned, or
- (ii) the award of low fail results in all subjects in which the student would have received final results in the same academic semester.

For a further breach -

- (i) exclusion from the University for a period, or
- (ii) permanent exclusion from the University.

A candidate incurring either of these last-mentioned penalties, resulting in exclusion from the University, shall have a right of appeal to the Council (refer to "Unsatisfactory Academic Performance" section 5).

- (c) Any complaint that a student allegedly breached a rule contained in the preceding sections of these rules shall be referred to the Registrar, or an officer delegated by the Registrar to deal with examination matters, to determine whether the complaint should be investigated. The Registrar, or other officer, shall notify the Vice-Chancellor of any alleged breach which it has been resolved should be investigated. The Vice-Chancellor shall provide in writing an opportunity for the student to show cause, within not less than seven days from the date of such requirement, why penalty should not be imposed under this rule. In the event of the student failing to show cause acceptable to the Vice-Chancellor, the Vice-Chancellor may impose a penalty as provided for in this rule 27.
- (d) Any penalty imposed under this rule shall be communicated to the relevant Dean of Faculty for information.

Assessment of Results

28. List of Candidates Results

On the basis of completed Examiners' Returns submitted to the Examinations Officer by Heads of School, faculty Academic Boards are provided with lists of recommended results and grade lines in order to determine final results.

29. Subjects Offered by the Faculty - Academic Board Responsibilities

Often faculties teach subjects to students enrolled in courses administered by other faculty Academic Boards. Procedures for determining results are as follows:

- (i) Each Academic Board is provided with a list of recommended results for candidates enrolled in subjects offered by schools in the faculty, as well as an analysis of results recommended which shows the numbers of candidates within each pass or fail grading.
- (ii) The Academic Board reviews recommended grade lines for each subject and the recommended result for each candidate, and determines final results for recommendation to the Academic Boards administering courses which have students enrolled in the faculty's subjects. Grading scales are outlined in section 31.
- (iii) The Dean of Faculty may, before submitting results to the Academic Board, adjust recommended grades in any subject in accordance with board policy. Deans must report to the board any adjustments made.



30. Courses Administered by the Faculty - Academic Board Responsibilities

- (a) Each Academic Board is provided with a list of students in the faculty's courses with recommended results for all subjects. Academic Boards review results recommended for each student of each course in accordance with course rules and board policy.
- (b) The Academic Board may determine a subject result of a student enrolled in one of its courses which is different from the result recommended by the Academic Board offering the subject in one of the following ways:
 - (i) a candidate may be granted a supplementary examination or required to undertake additional assessment as determined by the board;
 - (ii) a candidate's results may be varied after advising either the examiner of the subject or the Head of School offering the subject of the intended variation and considering any matters which either of them wish to place before the board.
- (c) The Academic Board may delegate to a committee the authority to exercise the board's powers to assess results, provided that the board has determined policy on assessment of results and the committee's decisions are consistent with this policy and reported to the board's next meeting.
- (d) A dean of a faculty administering a course may, with the concurrence of the relevant chief examiner or the head of the school offering the subject, alter his or her Academic Board's decisions on supplementary examinations or results in order to:
 - (i) correct a patent error, or
 - (ii) make a decision accord with a decision that the Dean of Faculty, Head of School and/or examiner are satisfied would have been made by the Academic Board if relevant circumstances which were not considered by the board had been taken into account.

31. Grading Scales

(a) The following standard percentage grade lines are established initially to assess student performance (see (f) below):

"Pass" Awards	Standard Percentage Grade Line
HD High Distinction	85
D Distinction	75
C Credit	65
P Pass	50
Q Low Pass	47
"Fail" Awards	
N Fail	25
L Low Fail	
X Fail - No Assessment Undertaken	0
K Fail - Late Cancellation	

- (b) Where approval has been given by an Academic Board administering a course, subjects within the course may be graded on the following scale:
- □ G Satisfactorily Completed
- □ Z Not Satisfactorily Completed.
- (c) The Academic Board may also determine that all pass grades in a subject be graded:

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□ R Pass - Non-graded.

- (d) Students who undertake supplementary examinations may not be awarded with a grade higher than Pass Supplementary (T), or where students are not successful at a supplementary examination they will be awarded Fail Supplementary (M) for the subject.
- (e) Marks for items of assessment in a subject combine to give an overall percentage for the subject.
- (f) The standard percentage grade lines may be varied by the relevant examiner or the Academic Board.

32. Unfinalised Results

The following results apply when grades cannot be finalised.

- W Result Withheld If an Academic Board administering a course decides that a student must undertake further assessment before results for a subject or subjects are released, results may be withheld until the student has fulfilled all requirements. Students must contact their Head of School to ascertain the further action required of them.
- □ V Result Unavailable The result will be issued in due course.
- □ S Supplementary Examination Student is to undertake supplementary assessment.
- □ U Deferred Examination Student is to undertake a deferred examination.
- □ Y Assessment Continues Studies extending over more than one semester.

33. Withholding Release of Results

- (a) The Registrar, acting on the recommendation of a Dean of Faculty, the Chief Librarian, the Computer Manager, the Finance Manager or other officer authorised by Council, may approve that a student's examination results not be published or released to the student.
- (b) Such a recommendation may be made if, by the last day of a semester's examination period:
- □ the student fails to return to the University equipment which the student has borrowed from the University and which is overdue for return; or
- the student fails to meet a debt or obligation to the University where the class of debt or obligation has been deemed by the Registrar to warrant the non-release of results.
- (c) A student whose examination results have not been released under this rule may appeal to the Vice-Chancellor. The appeal, setting out the grounds and reasons, must be lodged with the Vice-Chancellor within 14 days of the date appearing on the letter advising the student of the Registrar's decision.

34. Finalisation of Results

- (a) The Academic Board administering the course must advise the Registrar of a final result:
- □ in the case of results withheld for spring semester subjects, by not later than the last Friday in January of the following year;
- □ in the case of results withheld for autumn semester subjects, by not later than two weeks after the commencement of the following semester.
- (b) If, because of exceptional circumstances, an Academic Board is unable to finalise a result by the date specified, the Registrar, on advice from the board, may approve



an extension of time. All results must be finalised by the sixth week of the succeeding semester.

35. Grade Point Average

The Grade Point Average (GPA) is a simple numeric index which summarises the student's academic performance in a course in a single semester and over the duration of the student's enrolment in the course.

(a) The GPA is reported on the Examination Results Certificate and on the Statement of Academic Record. Two values of the GPA are given; the GPA for the semester and the GPA in the course.

The GPA is calculated by the formula:

 $GPA = \sum (credit points of subject) x (numeric value of grade)$ $\sum (credit points of subject)$

For the GPA for a semester, the summation is over all results obtained in that semester. For the GPA in a course, the summation is over all results in the course from 1985 to the current year. Only subjects taken while enrolled in the course are included. Subjects taken in another course contribute to the student's GPA in that course and do not affect the GPA in the present course even if the student has received credit for or exemption from the subjects in the present course.

(b) The result obtained in each subject is converted to a numeric grade as follows:

High Distinction (HD)	7
Distinction (D)	6
Credit (C)	5
Pass (P)	4
Low Pass (Q), Pass Supplementary (T)	3
Fail (N), Fail Supplementary (M)	2
Low Fail (L), Fail - No Assessment	
Undertaken (X), Fail - Late Cancellation (K)	I

Notes:

- □ Only subjects with finalised results are included (not S, U, V, W).
- □ Only subjects for which a full range of results is awarded are included (not "satisfactorily completed", "non-graded pass", etc).
- □ Only QUT subjects are included (not subjects taken at an external institution).

Release of Results

36. Approval of Release of Results

Following certification by deans of faculty, results will be released at the direction of the Registrar.

37. Notification of Results

- (a) Results are published in *The Courier-Mail* newspaper as well as placed on internal noticeboards within faculties or schools.
- (b) Only passing grades and unfinalised results are published in the press, while the internal listings also include failing grades.
- (c) All students will receive a Certificate of Results at the end of each semester.



38. Non-Publication of Results

- (a) Students may request to have their results withheld from public release.
- (b) Application must be made to the Registrar no later than the last day of end-of-semester central examination periods.
- (c) Applications submitted in the autumn semester will automatically remain valid for the current calendar year.

Review of Results

39. Applications for Review of Results

- (a) Any student having reason to believe that an error has been made or an injustice done with regard to results in final examinations may apply for a review of the grade. Final examinations include central examinations, supplementary and/or deferred examinations and end-of-semester/year department examinations.
- (b) Application must be lodged with the Registrar not later than the date prescribed in the academic Calendar in the case of end-of-semester/year examinations, or within seven days of release of the result in the case of deferred and/or supplementary examinations. Applications attract a fee prescribed by Council which is reimbursed if a higher grade is awarded following the review.
- (c) The form of the review is determined by the Head of School responsible for the course. However, the University's minimum requirements to be applied in any such review are that marks originally given for each part of each question are consistent with the answer (as opposed to the lecturer making a new judgement in isolation), that all sections have been marked, and that the aggregate marks for the paper and any other items of assessment were accurately compiled.
- (d) The Registrar advises students of the outcome of review of results applications.

Unsatisfactory Academic Performance

Students are expected to maintain a satisfactory level of performance in their studies at QUT. Performance is reviewed at the end of each semester. Students whose performance is unsatisfactory are placed on probationary enrolment. If performance continues at an unsatisfactory level the student may be excluded.

This policy applies to studies undertaken in a course for which a student is registered. Unregistered students are required to apply for enrolment each year, and their applications may be accepted or rejected by the Registrar on the recommendation of the relevant Head of School.

1. Probationary Enrolmeut

A student is placed on probationary enrolment if

- □ the student has, in the most recent semester, failed a subject which has been failed previously, or
- □ the student has, while on probationary enrolment, failed a subject which has been failed previously, or
- □ the student has a grade point average of less than 3.0 in the course in which he or she is enrolled, provided that the grade point average in the most recent semester was at least 1.00, or



the student has, during an academic year, undertaken as part of the QUT course two or more subjects from an external institution and has failed more than half of such external subjects.

For the purpose of this rule a subject is uniquely identified by the subject code. Where a subject code has been changed to indicate a change in the faculty, school or department responsible for the subject, the subject will be deemed to be the same subject for the purpose of this rule.

The Registrar notifies students that they have been placed on probationary enrolment and advises them that they should discuss their progress with their Head of School.

2. Terms of Probationary Enrolment

Students on probationary enrolment are required to enrol as the Head of School directs.

Students placed on probationary enrolment at the end of autumn semester remain on probationary enrolment for the duration of the following spring semester. Students placed on probationary enrolment at the end of spring semester remain on probationary enrolment for the duration of the following autumn and spring semesters.

If a student cancels or lapses enrolment while on probationary enrolment, any subsequent enrolment in that course is a probationary enrolment for the purposes of defining eligibility for exclusion. The periods of probationary enrolment before and after the period of lapsed enrolment are counted as one period of probationary enrolment.

3. Exclusion

At the end of each year, faculty Academic Boards review the academic performance of students enrolled in the faculty's courses who are eligible for a second or subsequent period of probation.

An Academic Board may exclude a student from further enrolment in a course if the student is eligible for a second or subsequent period of probation in the course.

An Academic Board may exclude a student from further enrolment in all courses or a specified group of courses offered by the faculty if the student is eligible for probationary enrolment and either has had at least two periods of probationary enrolment in courses offered by the University or has been excluded from another course offered by the University.

Academic Committee, on the recommendation of the Academic Board, may exclude a student from further enrolment in all courses offered by the University if the student is eligible for a second or subsequent period of probation in a course and has been excluded previously from a course in another faculty.

An excluded student may not enrol as an unregistered student in any subjects in the course or eourses from which he or she has been excluded except at the discretion of the dean of the faculty responsible for the course.

Students excluded because of Unsatisfactory Academic Performance have the right of appeal to the Academic Appeals Committee.

4. Re-admission after Exclusion

- (a) A student excluded on the grounds of unsatisfactory academic performance may apply for and be considered for re-admission. Re-admission shall not take place until at least four semesters have elapsed since exclusion.
- (b) Students re-enrolled after a period of exclusion will be placed on probationary enrolment for the remainder of the academic year.



- (c) At the end of the academic year, the Academic Board of the relevant faculty will review the academic performance of each student re-enrolled to the course during that year. If the student's grade point average since re-enrolment is less than 3.5, the student may be excluded as per "Unsatisfactory Academic Performance" section 3.
- (d) If the student is permitted to proceed with the course, in subsequent years the student is subject to the probationary rules. In administering the probationary rules, subjects failed prior to the period of exclusion and the grade point average prior to the period of exclusion will be taken into account.

5. Student Appeals Against Exclusion

A student who has been excluded on the grounds of unsatisfactory academic performance, failure to complete an award within time limits, or breach of examination rules has right of appeal to Council. Council has appointed an Academic Appeals Committee to consider student appeals on its behalf.

All students who are excluded are notified by registered mail. Appeals against exclusion are made in writing to the Registrar. Correspondence must include the grounds and reasons for the appeal and must reach the Registrar within 14 days of the date of that officer's letter which advised the student of the exclusion.

(a) Appeals against exclusion for unsatisfactory academic performance

The Probation/Exclusion Officer refers an appeal against exclusion for unsatisfactory academic performance to the relevant faculty Academic Board. The Academic Board recommends to the Academic Appeals Committee whether the appeal should be upheld or dismissed. The Committee considers

- □ whether the penalty imposed and procedures followed were correct according to policy and rules;
- □ the severity or otherwise of the penalty imposed;
- in mitigating circumstances advanced by or on behalf of the student in the appeal.

When an appeal against exclusion is upheld, the student is placed on probationary enrolment for the remainder of the academic year.

(b) Appeal against exclusion as a penalty for breach of Examination Rules

The Registrar refers an appeal against exclusion for cheating to the Academic Appeals Committee. The Committee determines whether the appeal should be upheld or dismissed. The Committee considers

- □ whether the original decision to exclude the student was correct under the relevant rules;
- □ whether procedures were properly carried out;
- \Box the severity or otherwise of the penalty imposed.

(c) Appeal against exclusion for failure to complete course within time limits

The Probation/Exclusion Officer refers an appeal against exclusion for failing to complete a course within time limits to the relevant Academic Board. The Academic Board recommends to the Academic Appeals Committee on whether the appeal should be upheld or dismissed. The Committee considers

- □ whether the penalty imposed and the procedures followed were correct according to the relevant policies and rules;
- □ the severity or otherwise of the penalty imposed;



□ mitigating circumstances advanced by or on behalf of the student in the appeal.

When the Academic Board recommends that an appeal be upheld, the board includes in its report a specified period in which the student will complete the course requirements, and any subjects or special examinations that the student will be required to undertake.

When the Academic Appeals Committee decides that an appeal be upheld, the appeal is referred back to the Academic Board to determine conditions under which the student may complete the course.

Higher Education Contribution Scheme

Under Commonwealth Government legislation, all students must comply with certain conditions with respect to the Higher Education Contribution Scheme (HECS) as a condition of their enrolment.

1. HECS Payment Option Form

- (a) All students are required to lodge a HECS Payment Option Form at the time of their initial enrolment in a course. A new HECS Payment Option Form must be lodged when a student changes course or when a student wishes to change HECS payment option.
- (b) Unless a student is exempted from HECS under the terms of the Commonwealth legislation, the student must select either the up-front payment option or the deferred payment option as the method for making their HECS payment.
- (c) If a student fails to lodge a valid HECS Payment Option Form by the first day of the first semester of enrolment in the course, the student's enrolment is cancelled on the grounds that the student has not fulfilled the conditions of enrolment.

2. Changing HECS Payment Option

A student may change HECS payment option by lodging a new HECS Payment Option Form by the date specified on the QUT Academic Calendar. The new payment option applies to all future semesters until a further change of payment option is notified.

3. Deferred Payment Option

- (a) Students who select the deferred payment option must provide a tax file number or an application for a tax file number.
- (b) If a student fails to supply a tax file number or a tax file number application form, the student's enrolment is cancelled on the grounds that the student has not fulfilled the conditions of enrolment.

4. Up-front Payment Option

- (a) Students who select the up-front payment option are sent an invoice for the HECS amount to be paid based on the initial enrolment of the student for the semester.
- (b) If a student fails to pay in full the invoiced amount by the due date shown on the invoice, the student must complete a HECS Payment Option Form selecting the deferred payment option and provide a tax file number or a tax file number application form.
- (c) If a student fails to take the action specified in this rule, the student's enrolment is cancelled on the grounds that the student has not fulfilled the conditions of enrolment.



5. The HECS Statement

- (a) Following the census date for a semester, students are provided with a HECS Statement setting out their HECS liability for the semester which is determined by the subjects for which the student is enrolled on the census date.
- (b) Students are given 14 days from the date of the HECS Statement to advise the Enrolments Section of any error in the statement.
- (c) In the case of students selecting the up-front payment option, if a student's enrolment program has changed since the initial invoice, the student may be required to pay an additional amount or a refund may be provided.
- (d) If a student fails to pay in full any additional amount, the student's enrolment is cancelled on the grounds that the student has not fulfilled the conditions of enrolment.

Student Guild Fee Rules

1. Membership of Guild

Subject to section 2, all enrolled students, excepting such persons or classes of persons as QUT Council declares by resolution to be ineligible for membership, shall be members of the Guild.

2. Conscientious Objection

An enrolled student who:

- declares in writing to the Registrar that he or she has a conscientious objection to being a member of the Guild and notifies the Guild accordingly; and
- □ pays to QUT an amount equivalent to the Guild fees which would be payable if the student were a member of the Guild; and
- pays to QUT an amount equivalent to 5% of the Guild fees as a fee for use of University facilities in processing the declaration of conscientious objection is exempt from membership of the Guild.

3. Fees to be Paid

- (a) Guild fees payable for membership of the Guild shall be the amount approved by QUT Council.
- (b) Guild fees for both semesters shall be paid in full prior to or at the time of submitting an enrolment form or re-enrolment form.

4. Consequences of Non-payment

- (a) If Guild fees payable by a student have not been paid at the time of lodging an enrolment, or the student has not notified the Registrar of a conscientious objection as per rule 2, the Registrar may refuse to accept the student's enrolment.
- (b) A student who has not paid all Guild fees due and who satisfies the Registrar that he or she is unable to make payment at the time of submitting an enrolment form may be granted an extension of time in which to pay the fees. In this case the enrolment is accepted subject to an agreement that all Guild fees will be paid by the extended date indicated by the Registrar.
- (c) If Guild fees payable by a student remain unpaid within five weeks of the commencement of the first semester of the academic year, or, in the case of a student who is enrolling for the second semester only, within five weeks of the



commencement of the second semester of the academic year, the Registrar may cancel the student's enrolment at any time thereafter.

5. Refund of Fees

A student who cancels enrolment on or before the date indicated on the QUT academic Calendar as the final date for cancellation of enrolment without academic penalty shall be entitled to a refund of the Guild fees for that semester and any future semester for which the Guild fees have been paid. The refund will be made by the University on behalf of the Guild. The student is required to surrender any current QUT Student Card.

Schedule of Charges Affecting Students

1. Guild Fees

Full-time students \$100 p.a.

Part-time students \$50 p.a.

Part-time external students \$7 p.a.

All other members \$50 p.a.

Students undertaking a thesis only shall be required to pay the appropriate full-time or part-time fee corresponding to their attendance status.

2. Admission, Enrolment and Examination

Late lodgement of Enrolment Application - for applications received after the closing date set out in the academic Calendar \$30

Charge for adding a subject to study program or substituting one subject for another in study program after the final date for additions and substitutions set out in the academic Calendar \$20

Refundable deposit for review of Special Consideration decision \$20

Review of Examination Results \$6 per paper with a maximum of \$12 per subject

Tuition Fees for Visiting Students \$350 per subject per semester

Statement of Academic Record

Each student shall be entitled to receive an official statement of Academic Record free of charge at the time of graduation.

Statements supplied at any other time \$5 per copy

Re-issue of Identity Card \$3

Charge for obtaining a student Identity Card (other than a reissue) after March 30 **\$10** (this charge will be waived for students who do not enrol until Spring Semester)

Re-issue of Award Certificate \$15

Re-issue of Receipt for fees paid \$2

3. Deposit System for Use of Laboratory Facilities

- (a) A student enrolled in any subject included in the 'Schedule of Subjects relating to Laboratory Deposits' which the Registrar may vary from time to time, shall deposit \$50 for the use of laboratory facilities.
- (b) A student shall be required to pay only one deposit irrespective of the number of such subjects included in an enrolment.



(c) At the end of the year the deposit shall be refunded to the student less the cost of any breakages which have not been made good.

Parking

Council has approved regulations relating to the parking of motor vehicles on campus.

1. Parking Regulations

- (a) A member of staff or a student shall not be permitted to park a vehicle within the grounds of the University unless such person has previously made application for a parking permit and this permit has been granted.
- (b) The privilege of parking within the grounds shall be subject to such conditions as may be imposed at the time the permit is issued to the applicant.
- (c) An application for permission to park a vehicle within the grounds of the University shall be made on a form prescribed and available at the University Security and Traffic Office.
- (d) For a breach in the parking of a vehicle the Registrar may revoke the permit for a period or for the remainder of the academic year.
- (e) For a breach by a person not possessing a parking permit in the parking of a vehicle, the Registrar may arrange for the vehicle to be removed from the grounds of the University and the person shall be required to pay the cost of such removal.

Library Policies

1. Authority of the University Librarian

The Library shall be administered by the University Librarian. Subject to the overall control of the Vice Chancellor and the University Council, the University Librarian shall:

(a)Prescribe the procedures to be followed by Library users;

(b)Exercise disciplinary authority with respect to the behaviour of users of the Library;

(c)Exercise disciplinary authority with respect to the preservation, consultation and loan of library materials.

2. Library Usage

ENTITLED USERS

(a)Subject as below, the University Librarian may permit any person to use any facility of the Library and determine the conditions under which such use is permitted. Failure to comply with any such conditions shall be a breach of these Rules.

(b)The following are entitled to use the Library for study and research:

- □ Students of the University;
- □ Staff of the University;
- □ Members of the University Council;
- □ Special users who are:
 - reciprocal users (as defined in written agreements with QUT);
 - any other person or group approved by the University Librarian.



- (c)The University Librarian may make a charge to any user or users for library materials, services or other facilities in accordance with Schedule of Library Charges as approved from time to time by the Vice-Chancellor.
- (d)Any person entitled or given approval to use any facility of the Library may be required to complete and sign a registration card undertaking to comply with the Rules.
- (e)Any person entitled or given approval to use any facility of the Library, and wishing to do so, must obtain a QUT Library membership Card or a QUT Identity Card, whichever is appropriate.

HOURS OF OPENING

The hours during which the Library shall be open shall be prescribed by the University Librarian, subject to the approval of the Vice-Chancellor, and posted at the entrance to the Library. Prior notice through normal University channels will be given of any change in the hours of opening.

RULES FOR GENERAL CONDUCT

- (a)No person shall in the Library behave in a manner which, in the reasonable opinion of any librarian on duty is not a proper manner and a proper use of the Library, or which interferes with the comfort or convenience of, or the use of the Library by, other persons.
- (b)No person may eat or drink in the Library except in such areas as are specifically set aside by the University Librarian for either of these purposes. No animals shall be brought into the Library.
- (c)Bags, cases or other material may be brought into the Library, but must be offered for inspection on leaving the Library if requested by a member of the Library staff.
- (d)No person may reserve a seat in a general reading area, except in closed carrels. Articles left unattended in the Library for more than 30 minutes may be removed by Library staff. The University, University Librarian and Library staff shall have no responsibility for personal belongings left in the Library.
- (e)An atmosphere of quiet must be maintained in the Library so that it is at all times a place conducive to independent study and quiet reading. Silence must be kept in the main reading areas and conversation restricted to the seminar rooms and other specified areas.

BORROWING RESPONSIBILITIES

- (a)A current Identity Card is necessary for borrowing Library materials and should be carried at all times.
- (b)A borrower is responsible for the safe-keeping and return of the materials borrowed by him or her from the Library.
- (c)All borrowers must complete the appropriate procedures for each item borrowed.
- (d)All items on loan must be returned on or before the last date stamped on the date slip or, where appropriate, before the expiration of a recall notice.
- (e)Names of borrowers will not be revealed without the borrower's consent.
- (f)Borrowers are responsible for notifying the Library of any change of address.

LOANS

(a)Restrictions may be placed on the number of items which a user may have on loan at any one time.



(b)Books

The usual loan period for books is four weeks, normally renewable once. From time to time, certain items may be placed in the Limited Access Collection (i.e., for use only in the Library) or on Short Term Loans (i.e., for a one week non renewable loan period).

In addition, loan periods for certain items may be adjusted in accordance with patterns of use in an effort to ensure equitable distribution.

(c)Extended Book Loans

With the approval of the University Librarian, full-time academic staff may borrow, for one extended period only, books required in the planning of courses or subjects. Requests for extended loans must be submitted in writing. Extended loans normally will be from 1st December to 31st July of the following year or from 1st June to 30th November of the same year.

(d)Periodicals

Unbound issues of periodicals (other than current issues or issues on display) may be borrowed by staff for one week. Loans of periodicals are not renewable.

Monographic series (e.g., Advances in ...) may be borrowed by staff and students for one week. Loans of monographic series are not renewable.

(e)Audio-Visual

Most types of audio-visual materials, with the exception of films and video, may be borrowed for two weeks by staff and students.

Films and videos may be borrowed by staff only, for a period of one week.

Audio-visual loans are not normally renewable.

LIMITED ACCESS COLLECTION

- (a)Only QUT students and staff and other persons approved by the University Librarian may use the Limited Access Collection.
- (b)No items borrowed from the Limited Access Collection may be removed from the Library, except as specified in Clause (c) below.
- (c)The normal loan period is two hours which is renewable if demand permits. Overnight loans are permitted from half an hour before closing time until half an hour after opening time the next day.
- (d)Students and staff must leave their QUT Identity Card as a deposit before being permitted to remove any item from the Limited Access Collection.

NON-LOANABLE MATERIALS

Non-loanable materials are as follows:

- (a) Reference works;
- (b) Maps and Charts;
- (c) Theses;
- (d) Bound volumes of periodicals;
- (e) Newspapers;
- (f) Other designated special collections.

3. Penalties, etc.

GENERAL

(a) A charge under these Rules shall be a debt to the University;



- (b) Subject as below, penalties i.e., reprimands, fines, withdrawal of borrowing privileges, exclusion from the Library, or other specified sanction for breaches of these Rules may be imposed by the University Librarian on any user.
- (c) Penalties (as specified in (a) above) may be waived by the University Librarian in special circumstances.
- (d) The Registrar, acting on the recommendation of the University Librarian, may refuse to publish or release a student's examination results for a specified semester or year, when the student fails to return a borrowed item which is overdue or fails to meet a debt to the University.

REPRIMAND

Failure to observe these Rules may incur a reprimand from the University Librarian or the senior Librarian on duty, together with a warning against repetition of the offence.

FINES FOR LATE RETURNS

- (a) All Loans Other than Limited Access or Short Term Loans
- □ When an item is overdue, an overdue notice will be sent to the borrower;
- □ If an item is returned late, a fine will be imposed at the rate of 30 cents for each day that the item is overdue from the date due up to a maximum of \$25.

(b) Limited Access Collection Loans

A fine of 75 cents per hour will be imposed for each hour or part thereof that an item is late, up to a maximum of \$25.

SHORT TERM LOANS

A fine of 75 cents per day, per item, will be imposed for each day the item is late, up to a maximum of \$25.

LOSS OF BORROWING RIGHTS

A user's borrowing rights may be withdrawn if one item or more is overdue. Once borrowing rights have been removed, they will not be restored until the overdue item/items are returned and the accrued fines paid.

PENALTIES FOR LIBRARY MATERIAL LOST OR DAMAGED IN THE CARE OF THE BORROWER

(a) Lost Materials

If an item appears to be lost, the loss must be reported to the Lending Services Librarian. If an item is not returned within five weeks of the date stamped on the date due slip, the item is presumed lost. If after a reasonable search by both librarian and borrower the item cannot be found and proof of return cannot be shown, the borrower shall be responsible for the replacement cost plus a processing charge of \$25 per item, up to a maximum of \$100 per item, to be paid within 14 days of notification.

(b) Damaged Material

If an item is returned from loan damaged, the borrower shall be responsible for its replacement cost, whether of the whole or part of the item, together with a processing charge of \$25 up to a maximum of \$100 per item, to be paid within 14 days of notification.

PENALTIES FOR DAMAGE TO LIBRARY FACILITIES OR MATERIALS OR THEFT Any person who disfigures, damages or illegally removes or attempts to remove any document or other Library facility may be excluded from the Library for up to one semester and shall be responsible for repair or replacement costs.

4. Appeals

Any person upon whom a penalty (as defined in 3 (b) hereof) has been imposed may, within fourteen days of the imposition, challenge the imposition of the penalty and/or



appeal against the imposition of the penalty, and any action which may be taken under Section 3 will be suspended pending determination of the challenge or appeal.

- (a) Any challenge or appeal should in the first instance be made in writing to the Registrar.
- (b) An appeal against a decision of the Registrar must be made in writing within seven days to the Vice-Chancellor.
- (c) On appeal, the Registrar or the Vice Chancellor, as the case may be, if there are extenuating or exceptional circumstances, may allow the appeal or reduce or waive the penalty.

5. Library Copying and Copyright

PERMISSIBLE COPYING

Unless otherwise permitted by the *Copyright Act 1968*, unauthorised copying of a work in which copyright subsists may infringe the copyright in that work. A copyright owner is entitled to take legal action against a person who infringes his or her copyright.

Under Section 40 of the *Copyright Act 1968*, it is a fair dealing to make a single copy, for the purpose of research or study, of one or more articles on the same subject matter in a periodical publication or, in the case of any other work, of a reasonable portion of a work. In the case of a published work that is of not less than 10 pages and is not an artistic work, 10% of the total number of pages, or one chapter, is a reasonable portion.

Certain University copying facilities are designated as "multiple copying facilities". These "multiple copying facilities" are situated within the University Library, the Printing Centre and the Faculty of Law only and are specifically identified on an adjacent notice.

NON-COPYRIGHT MATERIAL

There is no restriction on the copying of non-copyright material. Aside from personal papers, readers may be required to establish that the copies they have made are non-copyright matter. In some cases a statement is made on a publication permitting copying. Otherwise readers should assure themselves BEFORE making copies that they have the necessary authority OR are acting within the meaning of the *Copyright Act 1968*.

6. Notices

Any notices to be given to a person under these Rules shall be deemed to be sufficiently given if sent to him or her by mail at his or her address registered with the Library and shall be deemed to have been received by the person to whom it is addressed in the ordinary course of the post.

Appendix

Definitions

Vice-Chancellor means the Vice-Chancellor of the University.

Registrar means the Registrar of the University.

Dean of Faculty means a member of the academic staff appointed by Council and so designated.

Head of School means a member of the academic staff appointed by Council and so designated as the senior academic member of staff in a particular School. Reference to Head of School in these Rules is deemed to include reference to Head of Department.



Where there is no school or department responsible for subjects the Dean of Faculty shall be regarded as the Head of School.

Head of Department means a member of the academic staff appointed by Council and so designated as the senior academic member of staff in a particular Department. Reference to Head of Department in these Rules is deemed to include reference to Head of School.

Academic Board means a Board constituted by Council to exercise certain academic functions in relation to a particular Faculty.

Committee of the Academic Board means a group of members of the Academic Board constituted by the Academic Board to exercise those particular academic functions prescribed by the Academic Board.

Award means a Degree, Graduate Diploma, Diploma, Associate Diploma or Certificate conferred upon a student by the Council.

Chief Examiner means an officer appointed and so designated by a Head of School in relation to an examination in a particular subject for a particular period.

Examiner means an officer appointed by the Head of School to set and mark examination papers in a particular subject for a particular period.

Supervisor means an officer appointed by the Registrar or nominated by a Head of School to supervise the conduct of a particular examination.

Central Examination means any examination administered by the office of the Registrar.

Departmental Examination means any examination administered by a School or Department.

Supplementary Examination means a further examination given to a student who has failed to pass a subject.

Deferred Examination means an examination given to a student in cases where the student has failed to sit for or complete an examination and the reasons for such failure have been accepted by the Dean of Faculty.

Course means a group of subjects specified by the rules which must be successfully completed in order to qualify for a specified award.

Subject means the basic educational unit for which results are awarded within the University.

Result means the formal indicator of a student's achievement in a subject.

Assessment Provisions means the systems of assessment approved for a subject and may include Central Examinations, Departmental Examinations, Assignments, Field Work, Practical Work, Reports, Seminar Participation or other work which a student is required to do and which will be assessed in determining a student's result in the subject.

Equipment means all physical stock including computer hardware and software, library books and other library materials.



CENTRAL SERVICES



CENTRAL SERVICES

Administration

The central administration is responsible for the implementation of policy decisions and for the provision of administrative support in the operation and future decision making of the University.

The sections of Administration responsible for matters relating to students' attendance and performance at the University are grouped within a subdivision known as Administration Services which itself has two major sub-sections.

The Student Administration Section comprises Enrolments, Examinations, and Student Records. These sub-sections are responsible for: checking enrolments having regard to course and University rules; accurately recording the subjects undertaken by students; conducting central examinations; and the maintenance of academic records. Students experiencing difficulty with any aspect of their enrolment are encouraged to discuss such problems with officers from these sections. An interview can be arranged through the Enquiries Officer at the Enquiry Counter in 'U' Block.

Student Admissions and Services Section has a major responsibility for the provision of information for students and potential students, and the admission of students to the University. This section also organises functions such as orientation, graduation, QUT - career evenings and open days. Enquiries relating to these activities may be directed through the Enquiries Officer or the Section's Secretary.

Principal Officers

Chief Administration Officer and Registrar B.S. Waters, B Com (Old), AAUQ(Prov) Deputy Registrar D.G. Greenwood, B Econ(Hons)(Old) Assistant Registrar (Student Administration) L.R. Holman, BSc(Hons), PhD(Adel), DipTertEd(UNE) Student Record Systems Officer C.A. Birtwell BSc(UQ) Enrolments Officer B.J. Cheales Examinations Officer J.S. Stevenson Student Records Officer D.S. Drury Probation - Exclusion Officer M. Ellings Assistant Registrar (Student Admissions and Services) G.P. Abernethy, BA, MPubAd(Qld), GradDipBusAdmin(QIT) Senior Administration Officer - Graduate & Advisory Services D. K. Hall Graduate Placement Officer I. Robertson, TPTC(NSW) Admissions Officer C. Chalk, BA(Grif) Postgraduate Admissions Officer J. Payton, BA(Grif) Undergraduate Enquiries Officer S. Hynes



University Functions

The Student Admissions and Services Section of central administration is responsible for the organisation of the following annual programs for students and potential students

- Orientation Program
- Graduation Ceremonies
- QUT Career Evening and Open Days
- □ Appointments and Employment Service.

Orientation Program

The orientation program has a three-fold purpose. It is designed to familiarise intending students with the University, to give new students an opportunity to discuss their courses and future career opportunities with staff members, and to introduce students to the services, facilities and activities available to them. The orientation program is conducted during the week prior to the official commencement date for Autumn semester classes.

All new full-time and part-time students are welcomed to the campus by Vice-Chancellor, the Registrar, the Head of Counselling and the President of the Student Guild at an official orientation ceremony. Separate functions are conducted by the various Faculties and Schools with a departmental orientation following.

The Student Guild organises various activities on campus to familiarise students with the activities of the various clubs and societies, and to introduce students to the social life of the campus.

Graduation Ceremonies and Dinners

Degrees and Diplomas etc., are conferred at official and graduation ceremonies which are conducted bi-annually in April and October each year. Awards are conferred during ceremonies to graduands in the Faculties of Engineering, Business, Built Environment, Health Science, Information Technology, Law and Science. A separate ceremony is held in October for graduates from all Faculties who complete their studies in mid-year.

Graduands are required to make application for admission to graduate status by dates specified in the University Calendar. Each award is authorised by the University Council prior to the official ceremony.

Official invitations are forwarded to members of academic boards, advisory committees, representatives of organisations and prize donors. These ceremonies are conducted in the Performing Arts Complex, Southbank. Graduation hoods and gowns are available for hire from the QUT Student Guild.

Graduation dinners are organised by the QUT Foundation and are held at the conclusion of each ceremony at an appropriate venue.

QUT Career Evenings and Open Days

QUT career evenings and open days aim to develop a greater awareness and understanding of the University, its courses, and prospective careers. This program enables the public to view its facilities and resources.

The program is specifically directed towards secondary school students in an endeavour to make early contact with them, and assist career development and decision making.



The program is generally conducted in conjunction with the annual "Careers Information Evening Talks Program" conducted by the Commonwealth Employment Service, for school leavers.

QUT normally programs the open day bi-annually in August. The campus is open to the general public and groups of school students. It is programmed during the semester to enable QUT students to attend normal lectures, laboratory workshops, and studios. Special displays, demonstrations, activities, and guided tours are conducted.

Appointments and Employment Service

An Appointments and Employment Service is provided by the University to assist final year students to gain employment. The service includes:

- □ Reference library on prospective employers
- □ Short courses on writing resumes, interviewing skills and job hunting methods
- □ Annual Campus Interview Program.

The Campus Interview Program is conducted in Autumn semester (April-May) and Spring semester (August-September). Both private and public organisations conduct interviews with final year students on campus. Further details on this service to students may be obtained from the Graduate Placement Officer, Student Admissions and Services Section, U Block.

QUT Academic Dress

Chancellor and Vice-Chancellor

Gown: deep blue wool blend gown of Cambridge pattern. The gown is is embellished with braids embroidered in gold and silver threads with the design theme based on the floral emblem of Queensland, the Cooktown Orchid.

Councillor

Gown: Black Masters gown of Cambridge pattern with gold and cream embossed trimming and vertical gold edging.

Hood: Black hood fully lined with gold coloured silk.

Doctor of the University

Gown: Cambridge Doctorate pattern of scarlet cloth with facings and sleeve linings in the university blue.

Hood: Cambridge pattern of scarlet cloth, fully lined in university blue. *Headwear*: Black velvet Tudor bonnet with gold cord and tassels.

Doctor of Philosophy

Gown: Cambridge master pattern of black cloth with red facings. *Hood*: Cambridge pattern of black cloth fully lined in red. *Headwear*: Black velvet Tudor bonnet with red cord and tassels.

Graduate Diploma

The academic dress appropriate to the University or Institution whose award enabled entry into the Graduate Diploma. In addition a horizontal shoulder strap 100 mm in length and 50 mm wide shall be fixed to the academic gown in the colour of the Faculty in which the Graduate Diploma has been received. The horizontal strap will be affixed to the gown between shoulder and neck.

Bachelor

Gown: Black gown of Cambridge pattern.

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Hood: Black hood lined with 100 mm band of silk in the Faculty colour.

Diploma

Gown: Black gown of Cambridge pattern. *Hood:* Black hood with a 50 mm band of silk in the Faculty colour placed 50 mm from the inside edge of the hood.

Master of Applied Science by Research and Thesis

Gown: Black gown of Cambridge pattern. *Hood*: Black hood fully lined with silk of Faculty colour.

Master of Applied Science - Built Environment

Gown: Black gown of Cambridge pattern. Hood: Black hood fully lined with silk of Faculty colour with an edging of Pearl White.

Master of Business

Gown: Black gown of Cambridge pattern. Hood: Black hood fully lined with silk of Faculty colour.

Master of Business Administration

Gown: Black gown of Cambridge pattern. *Hood*: Black hood fully lined with silk of Faculty colour with an edging of Indian Yellow.

Master of Engineering by Thesis

Gown: Black gown of Cambridge pattern. Hood: Black hood fully lined with silk of Faculty colour.

Master of Engineering Science

Gown: Black gown of Cambridge pattern. Hood: Black hood fully lined with silk of Faculty colour with an edging of Turquoise.

Master of Health Scieuce

Gown: Black gown of Cambridge pattern. *Hood*: Black hood fully lined with silk of Faculty colour.

Master of Applied Science - Computing

Gown: Black gown of Cambridge pattern. *Hood*: Black hood fully lined with silk of Faculty colour with an edging of Signal Red.

Master of Law

Gown: Black gown of Cambridge pattern. *Hood:* Black hood fully lined with silk of Faculty colour.

Master of Applied Science - Medical Physics

Gown: Black gown of Cambridge pattern. *Hood*: Black hood fully lined with silk of Faculty colour with an edging of orange.

Master of Applied Science - Analytical Chemistry

Gown: Black gown of Cambridge pattern. *Hood:* Black hood fully lined with silk of Faculty colour.

Associate Diploma

Gown: Black gown of Cambridge pattern.

Hood: Black hood with a 25 mm band of silk in the Faculty colour placed 50 mm from the inside edging of the hood.

Undergraduate

Gown: Black gown of Cambridge pattern.



Distinguishing colour of the University - PMS289 Blue Distinguishing colours of the Faculties are Faculty of Science - PMS116 Yellow Faculty of the Built Environment - PMS199 Red Faculty of Business - PMS279 Blue Faculty of Information Technology - PMS341 Emerald Green Faculty of Engineering - PMS209 Claret Faculty of Health Science - PMS150 Orange Faculty of Law - PMS430 Grey.

University Library

University Librarian: T.G. Cochrane, BA (Qld), MPhil (Grif), ALAA

Location

The University Library is located in the A.M. Fraser Library building in a central position on campus, with the separate Law Library located in the Law Faculty building. The main Library occupies Levels 2-7 of the A.M. Fraser Library building.

Hours

During semester, the Library is normally open from 8 am to 10 pm, Monday to Thursday; 8 am to 8 pm on Friday. The Library also opens at weekends during semester across a range of hours; 11 am to 5 pm in the early part of semester and 9 am to 5 pm in the latter half of semester. Opening hours include public holidays which occur during semester periods. During semester breaks the Library is open 8 am to 6 pm Monday to Friday only.

Collections

The Library's collections of books, periodicals and other media have been developed to support teaching and research at the University, reflecting the courses taught and the research activities of faculties. Book and periodical volumes total approximately 250,000. The number of individual items of other media total over 100,000. These other media include a large map collection and over 1000 films and video tapes.

The collections are arranged on open access shelving and are classified by the Dewey decimal system. Access is provided by an online catalogue which is available on the campus computing network as well as within the Library building.

Services

Services are provided by a range of staff organised according to the kind of service provided. Information services are organised from the Library's reference section, comprising professional staff with individual responsibility for liaison with particular faculties, schools or departments.

A particular feature of the University Library is the provision of a large computer based education service. This facility, comprising 40 PC workstations, supports teaching in a number of faculties, and is also an important stand alone microcomputer laboratory. The Library also provides the usual range of academic library services:

- □ Lending services.
- □ Copying services.



- Document delivery via local, national and international interlibrary networks.
- □ Information services including quick reference answers, assistance with literature services and online information retrieval from an extensive range of databases.
- □ Guidance in the use of information resources generally and QUT Library in particular. Instructional services include basic orientation classes and exercises for new students, the use of secondary information sources including abstracts and indexes for students undertaking projects and demonstrations of computer based information services. More intensive and formal instruction is organised for research students.

Facilities for study, including study carrels, seminar rooms, lecture theatres and supporting audio-visual and computing equipment.

Translation services, displays and appropriate consultancy are also available.

Further Information

Published guides to the Library's collections and services are available on Level 3 (the entrance level to the Library). Contact telephone numbers are:

Lending services (including renewals): 223 2214 Interlibrary loans: 223 2718 Information desk (including catalogue checks): 223 2493 Media services (films, videos, CBE enquiries): 223 2218.

Academic Staff Development

Director: Associate Professor P.C. Candy, BA, B Comm (Melb), Dip Ed (Adelaide), Dip Cont Ed (UNE), M Ed (Manchester), Ed D (Brit Col).

The Academic Staff Development Section has two major areas of responsibility. The first of these is the maintenance and extension of good teaching and learning practices by the University. The second is the design and organisation of programs to improve management practices within the academic organisational units of the University at various levels. The section also conducts research in connection with these areas of responsibility.

The section's responsibility in terms of teaching practice involves extensive surveying of teaching practice (lecturer and subject reviews), assistance and advice on assessment techniques, remedial advice, practical assistance with teaching aids, the organisation of consultant advice where appropriate, and general developmental programs.

The management improvement program includes the organisation of programs for the University's senior staff, including seminar and training activity, and surveys of management performance and provision of feedback on request by heads of department, school, faculty and major administrative areas.

Location

The Section is on Level 7 of the A.M. Fraser Library Building. **Enquiries**: 223 2697.



Computing Services Facilities

Computing Services provides computing facilities for students and academic staff, and also provides and manages hardware and systems software for computing for administration and the Library. The professional staff provide a wide range of advisory services in areas such as systems, networking, applications, information and training, and purchase of hardware and software. The Microcomputer Support Facility maintains the majority of terminals and microcomputers on campus, and provides support for microcomputer users.

The major computers in the University computer network for academic purposes are a Digital VAX cluster, consisting of a VAX-8550 and a VAX-780. The VAX-8550 was installed in July 1987. The VAX-780 was installed in late 1984, primarily for use in Computer Aided Drafting and Design and computer Aided Manufacture (CADD/CAM). The University also has a DECsystem-10 purchased in 1979 which still provides a substantial proportion of the academic and administrative computing. These systems are supplied and maintained by Digital Equipment Corporation (Australia) Pty Ltd. In 1986 an IBM4381-1 system was installed, primarily for administrative use. This system is supplied and maintained by IBM Australia Limited. A Data General MV 15000 is used as a library circulation and on-line catalogue system.

All of the above systems can be reached from any terminal on the campus, either through a Digital Terminal Server system using Ethernet, or through an older Micom Port Selector. There is an on-line data entry system for the use of professional key punch operators.

Under the University's long term plan it is expected that there will be a significant upgrading to computing resources towards the end of 1989.

Computing Services is sited in a specially commissioned section of the library and computing services complex, where it occupies a total space of 1100 m^2 . This area includes, as well as the computer room and staff room, a classroom (overlooking the computer equipment) where demonstrations can be given, a 24 hour terminal room where a number of terminals are available to students, and a graphics room.

Computing Services provides a service to the whole University. It is under the management of the Director, Mr. W.J.G Fisher. He and the management of the University are advised on long term computing policy matters by the University's Computing Planning Committee.

The Director is also assisted by the Computing Services Advisory Committee. This Committee consists of the Deputy Vice-Chancellor, the Director of Computing Services (Chairman), representatives from each School or Department wishing to be so represented, the Academic Staff Association and the QUT Guild.

Details concerning the hardware and communications facilities available to users may be obtained from a range of publications which are available from the Computing Services service desk.

Users should refer to the Program Library Catalogue for information on the large library of software and application packages which is available.

Operations

All computers are normally run 24 hours a day, seven days a week.



During semester the counter of the Department is open from 8 am to 11.30 pm Monday to Friday, and 8.30 am to 5 pm Saturday and Sunday. The terminal room is available 24 hours a day, seven days a week.

Individual systems may be unavailable prior to 8 am for preventive maintenance and after 11 pm for testing purposes. Where possible 24 hours notice of system unavailability will be given. The Vaxes receive regular preventive maintenance 6.40 am to 8 am Fridays. During semester breaks Computing Services is not open on weekends. Individual systems may not be available after 6.30 pm.

Counselling and Health Services

The Counselling Centre is an autonomous professional service department of the University, taking an active role in promoting the personal and educational development of students and staff on campus.

It operates to assist with concerns related to normal development needs, problems with personal and social matters, educational difficulties and decision making on future career and personal planning.

As well, it offers programs designed to aid the development of personal maturity and effective patterns of living, studying, and working. These include interpersonal communication workshops, assertiveness workshops, job hunting skills and career planning workshops, stress management groups, reading efficiency and tertiary learning skills programs.

Complementing these are a range of general welfare and guidance services, including financial aid, course and career information, and an accommodation self-help service. The Centre also provides contact with many other agencies in the community offering services to students. The International Student Co-ordinator is situated in the Counselling Centre and provides assistance and advice to overseas and migrant students.

Services are provided by professionally qualified staff. Facilities in the Centre include consultation rooms, a group (lecture) room, and a library of course and welfare information. Services are free of charge and available to all students (both full and part-time) and staff on campus as well as others intending to enrol at QUT in the future.

The QUT Health Service is available free to both full-time and part-time QUT students. Students are welcome at the Health Service for discussion and treatment of all conditions pertaining to their fitness and health, including:

- □ First aid and dressings
- □ Skin care and conditions
- Gynaecological complaints and routine smear tests
- □ Contraception advice and counselling
- □ Routine and overseas vaccinations
- □ Hearing tests and scuba diving medicals.

All consultations at the Counselling Centre and the Health Service are strictly confidential. The Counselling and Health Service Centre is located in the Community Building on the lower ground level. A registered nurse is in attendance at the Health Service from 8.30 am to 7 pm Monday to Thursday and 8.30 am to 6 pm on Fridays. Appointments may be made for medical consultation with the two doctors who are in attendance daily. The Counselling Centre operates from 8 am to 6 pm Monday to Thursday, and 8 am to 5 pm Friday. It is advisable to make an appointment. The



telephone number for the Counselling Centre is 223 2383, and for the Health Service is 223 2321.

Chaplaincy Centre and Chapel

The Chaplaincy Centre is ecumenical - it is available to members of all faiths for worship, reflection and discussion.

The Centre seeks to gather a Christian community drawn from a diversity of traditions and theological emphases and to encourage this community to be a lively influence within the campus. It aims to relate Christian faith not only to personal commitment but also to corporate issues in the world. Activities include social gatherings, discussion groups, and prayer and meditation groups.

Two part-time chaplains are available to staff and students for consultation and counselling. One chaplain is present each day from 9 am - 12.30 pm but should there be no-one in the office, a message may be left at the Counselling Centre opposite. **Chaplain's phone: 223 2700.**

The Centre is downstairs in the Community Building (beneath the Coffee Shop). There is a chapel for private devotion and comfortable chairs and reading material.

QUT Student Guild

The QUT Student Guild is owned and operated by and for students. (However, associate membership is also avilable to QUT staff and the public).

The Aims of the Queensland University of Technology Student Guild

In its capacity as a community service organisation, the aims of the Guild are to involve its members in the full richness of the activities associated with campus life, provide the highest standard of services and facilities to members, and represent the interests of members on the various QUT boards and committees.

Guild Council

The QUT Student Guild Council comprises the President, five Executive Directors and up to thirty-five representative members elected from students enrolled in various faculties. Elections are held annually.

Guild Council meets every four weeks during semester. All members who wish to attend Council meetings are cordially invited to do so. Even though they are not Council members, they may ask questions of any of the Directors, student representatives or Academic Board representatives.

Guild Facilities and Services

Since the Guild has a major say in the day-to-day operations of the Community Building and provides large grants to subsidise clubs and activities, the amenities and services available for members are both beneficial and varied.

Guild Office: (Level 2, Community Building) which is staffed full-time to provide continuity of service to all studentsHours: 9 am to 6 pm Monday to Thursday; 9am to 5



pm Friday. For all enquiries about Guild activities and services either phone or call at the Guild Office. **Phone 221 3144**.

Campus Shop (Level 2, Community Building) sells a large range of calculators, sports shoes and sportswear, aerobics and leisure wear, cigarettes, chemist lines and other goods at discount prices. The shop also offers a drycleaning, photo-development and calculator repair service. Hours: 8.30am to 5.30pm Monday to Thursday, 8.30am to 3.30pm Friday.

QUT Gymnasium (Level 1, Community Building) offers fitness assessments, programs, weights, aerobics, a sports medicine clinic, spas, sauna, martial arts and boxing. The centre comprises a large gymnasium containing machines and free weights and an aerobics/recreation room catering for aerobics, martial arts, recreation courses, seminars, etc. Lockers, towels and refreshments are available. Hours 7 am to 8 pm Monday to Friday, 9 am to 12 noon Saturday.

QUT Student Guild Child Care Centre is located in the Old Bakehouse. The centre caters for 25 children per day - places are limited. Hours: 8 am to 5.15 pm Monday-Friday. **Phone 221 6993.**

Games Room (Lower Level, Sports Complex) has billiard tables and amusement machines for Guild members' use. Hours: 7.30 am to 5.15 pm Monday-Friday.

Second Hand Bookshop (behind the Guild Office) is a halfway house for unwanted textbooks. Hours for sale of books 12 noon to 2 pm Monday to Thursday, 12 noon to 5 pm Friday. Hours for acceptance of books for sale anytime during office hours. No lists are kept of books in stock. The Guild takes a \$3 handling fee for each book sold.

The Women's Services Officer is employed by the QUT Student Guild to look after the interests of women on campus. She organises the women's collective activities, acts as a counsellor for both women and men, and generally tries to educate the campus community about problems faced by women. Availability: check at Guild Office.

PLANET is the Guild's free community newspaper and is produced approximately every four weeks during semester PLANET provides general information and also acts as a forum for a wide range of topics of student interest. All members of the Guild are able to contribute articles, literary masterpieces, etc. The PLANET office is on Level 1, Community Building.

Student Information Centre (Level 2, Community Building) helps provide employment, accommodation and general information for students. The Centre does laminating and passport photos, runs a typing service, stocks bus and train timetables, and Austudy and Abstudy guides, as well as general information about the Guild and upcoming activities. Hours: 10 am to 6 pm Monday-Thursday; 9 am to 5 pm Friday.

Clubs and Societies - both sporting and non-sporting - are affiliated with the Guild and are funded annually. The number of clubs and societies is growing constantly. For information on the clubs presently operating, or if you want to start one up, contact the Guild Office or Student Information Centre.

The Guild produces a number of publications for members' information including the Alternative Handbook (student evaluation of lecturers and subjects), Orientation Handbook, student newspaper PLANET, Annual Report, Sport and Leisure Brochure, Wallplanner/Calendar, and Clubs and Societies Handbook. These are available free of charge from the Guild Office or Student Information Centre.

The Sport and Recreation office is on Level 2 and questions can be answered relating to sporting clubs, recreation courses, forthcoming sports events, lunchtime sport (QUT Cup), intercollegiates and all areas of sport and recreation on campus. The Guild runs



recreation courses which are tailored to the timetables, interests and budgets of QUT students. These are held both on and off campus and vary each semester.

- □ QUT Cup is lunch-time interfaculty sports competition operated each semester.
- □ Intercols: representative teams for up to 12 sports are chosen each year to represent QUT at the State and National championships.

Sporting Clubs: over 18 sporting clubs are affiliated to the Guild. Information is available in the sport and recreation brochure, from staff in the Gymnasium, Sports Centre or Sport and Recreation office or from the Guild's **Director of Sport** on **221 3144**.

The QUT Sports Centre is open seven days a week, all year round. The Centre includes a 25 m heated indoor swimming pool, three squash courts, a sundeck and a kiosk. Activities include rebound volleyball, table tennis, training squads for triathletes, sw mers, aqua-aerobics, learn-to-swim, general fitness and AUSSI club. Lockers, towels, soap and hairdryers available. Hours: 5.30 am to 8 pm weekdays; 9 am to 6 pm weekends. Phone 223 2818.

Graduation gowns and hoods can be hired from the Guild for graduation ceremonies or photographs. Hiring fees are: gowns \$12; hoods \$6; mortarboards \$5; epaulettes for graduate diplomas an extra \$2. A security deposit of \$50 is required if gowns are taken off campus for other than graduation ceremonies.

The QUT Student Guild is owned and operated by and for students.

Credit Union

College Credit Union Ltd, situated on level 3 of the Community Building was established to serve the particular needs of staff and students. Membership is available to all persons associated with post-secondary education and members of their immediate families.

Services

The College Credit Union provides a wide range of services for its members including the following:

- □ Net pay and payroll deduction deposits to members' accounts
- □ Austudy, family allowance, pensions, et., paid direct into savings accounts
- □ On call savings, fixed term deposits and Christmas club account available
- □ Personal cheque accounts
- □ Automatic deduction of fees for QAASCAE and the Federated Clerks Union
- □ Bill paying service
- □ Low cost loans to approved applicants
- □ Automatic teller machine access to accounts
- □ Insurance for motor vehicle, home, contents, etc. (through CIC Insurance Limited)
- □ Thomas Cook travellers cheques.

Offices

Head office - QUT George Street, Brisbane (Phone 229 1388) Branches - QAC, Gatton; DDIAE, Toowoomba; CIAE, Rockhampton.



QUT Bookshop

Bookshop Manager: Peter Newman

Shop enquiries: 223 2433; managerial enquiries: 223 2402

The QUT Bookshop commenced trading in 1972. The shop is located in the Community Building. The bookshop is a self supporting operation which provides a service to the QUT campus supplying textbooks, stationery, general books, newspapers and cards. Cash discount is given on textbooks. Special orders and mail orders are welcomed.

Profits made by the QUT Bookshop are invested into the University Development Fund which benefits the campus community.

The bookshop works closely with academic staff with textbook adoptions and advice on all aspects of textbook requirements.

During semester the trading hours are 8.30 am to 6 pm Monday - Thursday, 8.30 am to 4.15 pm Friday. During vacation time the shop closes at 5 pm. Hours are extended during the busy start of semester periods and shop notices advise accordingly.

The QUT Bookshop has a management service facility assisting other tertiary campus bookstores. Currently, five bookstores in Brisbane and Toowoomba are managed by the QUT Bookshop.

The Gardens Point Campus Club

With its excellent views over the Brisbane River, the Gardens Point Campus Club is QUT's most pleasant and relaxing social facility. It was founded with financial assistance from the QUT Union and exists to foster social interaction in and amongst the students and staff of the QUT community.

Located on the upper level of the Community Building, the club not only provides a pleasant social atmosphere for drinking but also provides facilities for lunch, either from the Terrace Grill Bar or the Bistro dining room. Both of these facilities offer a high standard of food at very reasonable prices. The Lounge bar provides another setting where members can sit and relax with a cup of coffee in the comfort of their own club.

Entertainment in the club includes bands, (often organised in conjunction with the Student Guild), video movies, cabarets and regular promotional events.

The club also offers an excellent venue for functions. Catering prices are highly competitive and functions can be booked through the Secretary/Manager.

The club also is managed by a committee elected from members of the Student Guild Executive and members of the Club.

Membership of the Gardens Point Campus Club is open to all past and present students and staff of QUT and the Conservatorium of Music. Financial members benefit from regular concessions on various services and events provided by the club.

Trading hours: 12 pm to 10 pm.

Terrace Barbeque - Monday to Thursday 12 pm - 2 pm, 4.30 pm - 6 pm; Friday 12 pm - 2 pm

Bistro - Monday to Friday 12 pm - 2 pm, 4.30 pm - 6.30 pm. Phone: 221 4174.



Q Search

It is planned that, effective as at 1 January 1990, the responsibilities of Q Search be divisionalised as follows:

Pro Vice-Chancellor (Research)

	TTO TRE-Chancenor (Re	scarcity	
	OFFICE OF EDUCATIONAL SER VICES	OFFICE OF COMMERCIAL SERVICES	OFFICE OF RESEARCH
	Responsibilities:	Responsibilities:	Responsibilities:
	 continuing professional education, including graduate 	 commercialisation of invention/research 	 all competitive external and internal research grants
	certificates, accredited short courses, and contracted course management and	 specialist consultancy, analytical testing and advisory services 	□ public lectures
	development	□ teaching company	postgraduate awards, but excluding the
	 overseas student recruitment, and administration of 	schemes	student administration of postgraduates
	associated English	□ intellectual property	□ all other
	language courses	negotiation, licensing, patents and royalties	fellowships and awards
	 bridging programs and Foundation studies 	□ project management for	\Box liaison with the
	□ international	various of the above liaison with the	Office of Commercial Services re privately-
	training programs	Office of Educational	sponsored research projects
	 unregistered student recruitment 	Services regarding management of projects	\Box assist the PVC (R) and
		management of Dimects	

 conference and seminar management Services regarding projects management of projects assist the PVC (R) and which incorporate training programs Committee (RMC) in co-ordinating policy direction for research

- assist the PVC (R) and RMC in the identification of research infrastructure needs
- development and maintenance of a University-wide research data base

Non-Discriminatory Presentation and Practice for Students

Policy Statement

Queensland University of Technology endorses a policy of non-discriminatory presentation and practice in all administrative and academic activities of the University.

Accordingly, the University will

- (a) Actively promote the use of non-discriminatory language and presentation in all QUT documents and publications and non-discriminatory teaching practice in classrooms.
- (b) Put in place a procedure for settling complaints and grievances about discriminatory language, presentation, and teaching practices.
- (c) Make all staff aware of their responsibilities under the policy, and of the existence of a complaints procedure; and circulate suitable educational material to assist staff to comply.
- (d) Require that in the development of guidelines and teaching activities for students, staff encourage students to comply with the policy.

Responsibility

The Head of Department/School is responsible for implementation and monitoring of the policy, and for responding to complaints.

Procedure for Settling Complaints

Staff or students with complaints or concerns should approach

□ the Head of Department/School

or, if preferred,

- □ the Equal Employment Opportunity Co-ordinator
- any member of WIQUT (Women in QUT) in the Department, School or Faculty
- □ the Women's Officer of the Students Guild.

Application of Policy

QUT policy requires that all University educational, administrative and promotional material is presented in a non-discriminatory manner.

Non-Sexist Language

Non-sexist language is language which treats women and men equally; it does not discriminate against women.

Below are some examples and alternatives to assist students in writing assignments, and in their everyday speech in the classroom and on the campus.

1. The use of generic MAN

The word 'man' is ambiguous, and can mean either human being or male human being. As a generic term, it has led to the misrepresentation or exclusion of women.

The following are examples of common usage and accepted alternatives:



Instead of	Use
man/men	person/people, human beings, humans,
	humankind, men and women
mankind	people, human beings, humanity
man-made	hand-made, synthetic
spokesman	spokesperson
man in the street	average citizen
manpower	labour, staff
man-hours	work-hours, staff-hours
chairman	chairperson, chair, moderator, convener
foreman	supervisor
policeman	police officer

2. The personal pronoun

There are a number of ways of avoiding use of the generic 'he', 'his' or 'him':

(a) Recast in the plural
Instead of Use
When a student enrols he must... When students enrol they must...
(b) Substitute he or she or she/he or s/he
Instead of Use
When a student enrols he must... When a student enrols he or she must...
(c) Or simply reword to avoid the problem

Instead of	Use
Each student must submit his	Each student must submit an
essay by Week 14	essay by Week 14

3. Patronising expressions

Speak of females as you would speak of males in a similar situation:

Instead of	Use
The girls in the office	The secretaries in the
	office(or staff)
The ladies on the staff	The women on the staff
A Brisbane mother of four has	A Brisbane woman has been been
seconded to the committee	seconded to the committee

4. Sex-role stereotyping

Replace occupational terms or job titles which relate to only one sex with neutral terms:

Use
executive/business man or woman
doctor
nurse
actor
cleaner
Some students have families to
support

5. Titles of address

The conventional titles for women - 'Mrs' and 'Miss' - define women only in terms of their marital status. Except for those women who prefer to be conventionally addressed, the term 'Ms' is recommended.



Instead of Lecturers and their wives... Robert Brown and his wife Susan Dress: Black Tie Use Lecturers and their partners... Robert and Susan Brown Dress: Evening

6. Class material and practices

When presenting material and examples in class, consider the relevance of such material to all students. Female experience and contributions are as much a part of 'the real world' - our society - as male.

Textbooks and class illustrations should be non-discriminatory. Most of the recent material around is likely to be found suitable. The Library is happy to assist students in finding balanced support material on request.

Student promotional material, such as posters, videos and brochures, should feature both men and women.

Avoid using slides, overheads or other illustrations that represent women in a stereotypical, demeaning or irrelevant fashion. Ensure that they are presented as active partners in the illustrated activity, and not just passively supporting the males or waiting to be shown what to do.

7.Assignments

Make sure you comply with this policy in writing assignments. Use this guide.

Other Areas to Consider

Language presentation can demean or 'pigeonhole' individuals because of a range of unrelated personal characteristics, not just sex. Take care with the following:

It is better to use general terms which are capable of encompassing a range of lifestyles or circumstances, e.g., it is not accurate to refer to someone's 'Christian' name in a multicultural society. Refer to their first or given name instead.

The terms 'birth name', 'original name' or 'former name' are also preferable to 'maiden name', as are terms such as 'spouse' (instead of 'husband' or 'wife'), 'dependants' (rather than 'children'), and 'parent' or 'guardian' (instead of 'father' and 'mother').

- □ Don't refer to a person's racial background when this has nothing to do with the point being made, e.g., 'One student, a Vietnamese man, won an international prize in ergonomics'.
- □ Don't use derogatory racial terms.
- □ Don't use inaccurate and inappropriate descriptions of Aboriginal people and their culture.

The words 'half-castes' and 'full-bloods' are generally offensive to Aboriginal people. If distinctions between Aboriginal people need to be made it is usually sufficient to refer to them as 'traditional' or 'traditionally orientated', 'urban' or 'rural' Aboriginal people.

□ Don't refer to a person's physical appearance or disability when this has no relevance in the context, e.g., 'Our lecturer, who is paraplegic, is very knowledgeable and effective.'

'June Palmer, a striking blonde, attended the seminar.'

'Bob Ryan, a handsome young man, wrote the best essay.'

□ Reference to a person's age, religion, political or ideological commitment may also be discriminatory if it has no relevance in the context.



OUTLINE OF SUBJECTS

These subjects are listed in subject code order. As a cross-reference to codes, subjects are listed in alphabetical order by name in the list of subjects at the end of this section.



ACB110 ACCOUNTING I

This subject covers introduction to accounting, recording business transactions, adjustments, preparing financial statements, merchandising operations, accounting systems, specialised journals, cash, internal control, non-current assets, receivables, payables, inventories, sources and applications of funds, analysis and interpretation of financial statements.

Credit Points: 12 Contact Hours: 6 per week

ACB111 ACCOUNTING II

The aim of the subject is to give students a sound procedural and conceptual knowledge of basic accounting topics as a grounding for future studies. It covers partnerships, cash flow statements, introduction to company accounting, introduction to tax effect accounting, preparation of financial statements, alteration of share capital, issue and redemption of debentures, funds statements, investments, introduction to consolidations, analysis and interpretation of financial statements.

Prerequisite: ACB110 Credit Points: 12

ACB140 BUSINESS LAW

This unit is designed to introduce students to the impact of law on business. To do this, the unit deals with the components of the Australian legal systems and with the judicial process - the way legal decisions are made. The bulk of the unit involves a study of contract law which is the most important area of law in commerce.

Credit Points: 12 Contact Hours: 4 per week

ACB180 ACCOUNTING FOR MANAGERS

This subject covers introduction to recording business transactions, preparation of financial statements, accounting for inventory control accounts and subsidiary ledgers, structure of organisations and company accounts, analysis and interpretation of financial statements, the managerial accounting costing process, cost accounting systems, standard costing and variance analysis, managerial accounting and decision making.

Credit Points: 12 Contact Hours: 3 per week

ACB181 ACCOUNTING INFORMATION SYSTEMS I

This subject introduces the functions, activities and structure of organisations and the basic concepts of information and decision-making; examines the nature and role of the two general accounting systems which are found in an organisation - the Financial Accounting Information System (F.A.I.S.) and the Managerial Accounting Information System (M.A.I.S.); and analyses the procedures and techniques involved in the F.A.I.S. and the management planning and control system.

Credit Points: 9 Contact Hours: 3 per week

ACB210 COMPANY ACCOUNTING

This subject is designed to examine certain issues in financial accounting, particularly related to companies. Both practical and theoretical aspects will be considered: company formation, accounting for company income tax (tax-effect accounting); liquidation; acquisition of assets (including companies); consolidated financial statements; equity accounting; and disclosure in company financial statements.

Prerequisite:ACB111

Credit Points: 12 Contact Hours: 4 per week

ACB220 COST ACCOUNTING

This subject is designed to provide an understanding of cost accounting terminology and concepts and to expose the student to costing systems and cost estimation techniques. The subject should provide a solid grounding for application in managerial accounting. **Prerequisite:** ACB110

Credit Points: 12 Contact Hours: 4 per week

ACB230 FINANCIAL MANAGEMENT I

This subject introduces the topic of financial management. Particular emphasis is placed on establishing a theoretical framework that forms the basis for all the finance subjects offered in the degree. It encompasses certainty model; valuation; financial mathematics; capital budgeting; CAPM (Capital Asset Pricing Model); WACC (Weighted Average Cost of Capital); and introduction to the concept of risk: portfolio theory.

Prerequisite: ACB111

Credit Points: 12 Contact Hours: 4 per week

ACB231 AUSTRALIAN CAPITAL MARKETS

This subject is designed to provide the student with a thorough understanding of Australian Capital Markets; its institutions and its behaviour. On completion of this subject, students should be familiar with all parts of the Australian Capital Market place. In addition, financial market mathematical skills will have been developed.

Prerequisite: MNB232

Credit Points: 12 Contact Hours: 3 per week

ACB240 LAW OF BUSINESS ASSOCIATIONS

This subject examines the law relating to the establishment, operation, and dissolution of business associations. The forms of business associations studied include partnerships, joint ventures, trusts, companies and voluntary associations. On completion of this subject students should be able to identify and apply the basic principles of law in so far as they relate to the formation, control and winding down of the various business entities.

Prerequisite: ACB140

Credit Points: 12 Contact Hours: 4 per week

ACB280 HEALTH ADMINISTRATION FINANCE

The subject covers fund/accrual accounting, financial administration in Commonwealth and State Government, financial management in the health industry, financial analysis, planning and budgeting, working capital management in the health industry, health care performance and evaluation.

Prerequisite: ACB110

Credit Points: 12 Contact Hours: 3 per week

ACB281 BUILDING FINANCIAL MANAGEMENT I

This subject intends to develop an awareness of the accounting process and accounting systems in the Building Industry and to equip the student to make financial decisions using accounting data. It includes the nature of accounts, liabilities, and proprietorship; the accounting equation and balance sheet, ledger accounts and the double entry system, the accounting period eoncept, and profit determination. Different forms of ownership and the basic nature of taxation are considered. A coverage of budgeting follows.

Credit Points: 4 Contact Hours: 2 per week

ACB310 ACCOUNTING THEORY & PRACTICE

This subject is designed to introduce students to the nature and development of accounting theory, and to



develop students' understanding of Accounting Standards and their implications for practice. It includes the evolution of accounting theory; profits (determination and disclosure, revenue and expense recognition); assets (definition, recognition, measurement and classification); extractive industries; liabilities (definition, recognition, measurement and classification); leases; foreign currency translation; and joint ventures.

Prerequisite: ACB210

Credit Points: 12 Contact Hours: 4 per week

ACB311 AUDITING

Content: the audit environment; lcgal liability of auditors; professional cthics; study and evaluation of audit planning and programming, evidence, internal control theory and review techniques; audit program applications; revenue, receivables, cash, inventory; audit in EDP environment and evaluation of EDP controls; computer-assisted audit techniques, computer fraud, completion and review; the audit report. Prerequisite: ACB210

Credit Points: 12 Contact Hours: 3 per week

ACB312 AUDITING & PROFESSIONAL PRACTICE

The audit approach; planning an audit; audit working papers; verification of the balance sheet and profit and loss statement trade debtors, inventory, non-current assets, cash, investments, taxation, capital and retained profits; audit sampling theory techniques and applications; and other issues of current professional interest.

Prerequisite: ACB311

Credit Points: 12 Contact Hours: 4 per week

ACB320 GOVERNMENT ACCOUNTING

Scope and approach; institutional framework, objectives, concepts and principles of government accounting, accountability, management control, budgeting; revenue and expenditure accounting; illustration of government accounting systems at all levels of government, comparative government budgeting and accounting systems; accounting information systems, internal audit and efficiency audit. **Prerequisite:** ACB110

Credit Points: 12 Contact Hours: 4 per week

ACB321 MANAGERIAL ACCOUNTING

Development of budgets, responsibility accounting, special decision making, transfer pricing, VP Planner, ease study exercises, variance analysis, investigation of variances, inventory planning and control, project planning and control and strategic management, agency theory.

Prerequisites: ACB220, ACB230

Credit Points: 12 Contact Hours: 4 per week

ACB330 GOVERNMENT FINANCE

The subject covers an introduction to government finance, sources of public income, public expenditures, investment and debt. Taxation objectives principles and Australian practices. Instrumentalities of economic accountability, intergovernmental financial relations, government finance and economic policy, new financial legislation and institutions. Prerequisites: Government Accounting AND

Managerial Economics Credit Points: 12 Contact Hours: 3 per week

ACB331 FINANCIAL MANAGEMENT II

This subject is designed to build further upon the work in Financial Management I, particularly looking at the financial management of the firm. Topics covered include firm decisions regarding dividends, capital structure, working capital and leasing. Further topics include market efficiency, portfolio management, the nature and applications of options, takeovers and international finance.

Prerequisite: ACB230

Credit Points: 12 Contact Hours: 4 per week

ACB332 PORTFOLIO & SECURITY ANALYSIS

This subject is designed to make students aware of how Australia's financial markets operate. Both theory and empirical evidence are examined. The subject gives the students hands-on experience using Stock Exchange data, to calculate betas and form investment portfolios.

Prerequisite: ACB230

Credit Points: 12 Contact Hours: 3 per week

ACB335 INSURANCE RISK MANAGEMENT

This subject is designed to introduce students to the management of insurable risks. Content includes risk classification, measurement and analyses of risk, types of insurance policies available and the evaluations of an insurance program.

Prerequisites: ACB110, ACB230

Credit Points: 12 Contact Hours: 3 per week

ACB336 INTERNATIONAL FINANCE

This subject is designed to foster an understanding of both how a multinational firm operates and how international financial markets function. It covers international trade theory, international financial markets, overseas finance, exchange rate, risk management, international investment, legislation. **Prerequisite:** ACB230

Credit Points: 12 Contact Hours: 3 per week

ACB340 TAXATION LAW AND PRACTICE

This subject deals with the elements that determine the income upon which a taxpayer is required to pay income tax pursuant to the provisions of the Australian Income Tax Assessment Act. The steps involved in the calculation of tax are also covered. Brief consideration is given to employers' liability to fringe benefits tax pursuant to the Fringe Benefits Tax Assessment Act.

Prerequisite: ACB240

Credit Points: 12 Contact Hours: 3 per week

ACB341 COMMERCIAL & SECURITIES LAW

In Business Law, students have a detailed exposure to basic contract law. In this unit such law is extended to specific types of contract which are commonly encountered in the business world, such as sale of goods, hire purchase, agency. In addition, other areas of law relevant to commerce are studied, such as bailment and negligent mis-statements.

Prerequisite: ACB140

Credit Points: 12 Contact Hours: 4 per week

ACB342 COMPANY LAW & PRACTICE

This subject is designed to flesh out and apply the conceptual principles of company law studied in ACB240 Law of Business Associations. Particular emphasis is laid upon the practical implementation of the accounting, auditing, meeting and managerial requirements of the Companies Code; the outworking of the law relating to insolvent and financially troubled companies; and the peculiar difficulties of



the takeover provisions and the protection of minority interests.

Prercquisite: ACB240

Credit Points: 12 Contact Hours: 4 per week

ACB343 TAXATION OF BUSINESS ENTITIES

This subject examines in depth the income tax treatment of the various business entities and classes of taxpayer, and introduces the principles governing the taxation of international transactions, the administration of taxation legislation, and the imposition of non-income business taxes.

Prerequisite: ACB340 Taxation Law & Practice Credit Points: 12 Contact Hours: 4 per week

ACB344 TAXATION & PROFESSIONAL PRACTICE

This subject is designed to prepare students for a career in a professional accounting practice or assist students already engaged in same. There are two distinct modules of study - indirect and related business taxes, and tax planning and client relationships. Content includes sales tax, stamp duty, payroll tax, workers compensation and land tax, tax planning, and client relationships.

Prerequisite: ACB340 Co-requisite: ACB343 Credit Points: 12 Contact Hours: 4 pcr week

ACB345 FINANCIAL INSTITUTIONS -LAW

This subject is designed to provide students with a basic knowledge of law relevant to the finance industry. It encompasses legal structures of banks and non-banks, banks customer relationship, Cheque Act, negligent advice, Credit Act.

Prerequisite: ACB140

Credit Points: 12 Contact Hours: 3 per week

ACB350 FINANCIAL INSTITUTIONS -LENDING

This subject is designed to introduce studies to the principles and practice of lending. On completion of this subject, students should be able to understand how loans are analysed in a banking environment, as well as having an appreciation for the legal relationship between financial institutions and their customers.

Prerequisite: ACB110

Credit Points: 12 Contact Hours: 3 per week

ACB351 FINANCIAL INSTITUTIONS -MANAGEMENT

This subject is designed to introduce students to the main decision areas in the management of finance institutions.

Content covers strategic planning, managing interest rate risk, liquidity, capital structure costing services, performance measurement, responsibility accounting and motivation, management of funding decision, management of the loan portfolio and liquidity, differential cost analysis and transfer pricing. Prerequisites: ACB230, ACB220

Credit Points: 12 Contact Hours: 4 per week

ACB352 COMPARATIVE FINANCIAL SYSTEMS

This subject introduces analysis for the operations of important overseas capital markets. On completion of this subject, students should be able to understand how the capital markets of our major trading partners operate.

Prerequisites: ACB231, ACB230

Credit Points: 12 Contact Hours: 3 per week

ACB360 COMPUTER SECURITY & AUDIT

This subject is designed to give an understanding of EDP Controls appropriate in a computerised accounting system, the process of auditing such systems, and the use of computer-assisted auditing techniques. The subject covers the impact of EDP on controls and auditing, general EDP controls, EDP application controls, generalised audit software, static and dynamic computer-assisted auditing techniques, special EDP environments and computer fraud.

Prerequisite: ACB311 Co-requisite: ACB311 Credit Points: 12 Contact Hours: 3 per week

ACB380 LAW & COMMUNICATION

The subject covers the institutions of the law, ordering the law - public and private. The fashioning of law cases, precedent, legislation, delegated legislation interpretation, facts and the law, legal reasoning, the law library, limits on freedom of expression - torts and erimes - defamation, obscenity, laws and regulations affecting advertising - broadcasting, television and press, contempt of court.

Credit Points: 12 Contact Hours: 3 per week

ACB381 PUBLIC ADMINISTRATIVE LAW

The aim of this subject is to ensure the student gains an understanding of the range of controls exercisable by common or statute law over governmental decision making processes, where the validity of such processes is not dependent on special constitutional considerations and where it does not involve a question of mere liability under the existing categories of tort of contract law.

Prerequisites: MNB181, MNB183

Credit Points: 12 Contact Hnurs: 3 per week

ACB382 INTRODUCTORY ACCOUNTING

The subject covers the accounting equation and the double entry principle, recording business transactions, end of period adjustments, financial statements and closing entries, accounting for merchandising operations, specialised journals and subsidiary ledgers, cash controls, accounting for partnerships, accounting for companies, interpretation of financial statements, setting up an accounting system for a legal practice.

Credit Points: 12 Contact Hours: 3 per week

ACB383 ACCOUNTANCY FOR ADMINISTRATORS

On completion of this subject, students should be able to read and extract information from published financial reports and maintain records for a small organisation. The subject covers double entry accounting, general journal, ledgers, trial balance, overview of financial statements, worksheet preparation, accounting for merchandising operations, specialised journals and subsidiary ledgers and cash controls.

Credit Points: 12 Contact Hours: 3 per week

ACB384 INTRODUCTORY LEGAL STUDIES

The subject covers introduction to law, its nature, sources, development and institutions. The law of contract and its impact on business. Various areas of specialist contracts, e.g. sale of goods, agency and employment. Corporations. Restrictive trade practices and consumer affairs.

Credit Points: 12 Contact Hours: 3 per week



ACB480 PERSONAL & CORPORATE FINANCE

The Australian financial environment from both a personal and corporate point of view. The aim is to equip students with information and analytical techniques which will assist them in investment and financing decision making in their business and personal lives. The subject covers goals and functions of finance, methods of project evaluation, evaluation and selection of investment projects, management of working capital, leverage, cash forecasting and cash management, financial statement analysis.

Credit Points: 4 Contact Hours: 3 per week

ACB481 FINANCIAL MANAGEMENT FOR ENGINEERS

The subject aims to introduce engineering students to the theory and practice of financial management in Australia. It covers the nature of business finance and firm objectives, business structures and the organisation of the Australian capital markets, sources of long term and short term finance, the investment of firm funds in working capital and fixed assets, portfolio management theory.

Credit Points: 6 Contact Hours: 3 per week

ACB482 ACCOUNTING PRINCIPLES C

The subject aims to provide students with a comprehension of accountancy terminology and procedures to use as tools in their professional planning and budgeting activities. It covers the development of the rules and skills to prepare financial statements, the G.A.A.P. concepts for use in measurement of asset and liability values, depreciation and the relevant rates for use in decision making. **Credit Points:** 2

ACB659 FINANCIAL MODELLING

Content encompasses supply and demand for financial information cross sectional and time series analysis, bankruptcy prediction, empirical issues and evidence, debt ratings and financial information, financial analysis models, distress analysis and loan decisions. An IFPS project is also included in the course.

Prerequisite: ACB230

Credit Pnints: 12 Contact Hours: 3 per week

ACN110 PROFESSIONAL YEAR MODULE - ACCOUNTS

Content see ACN126 Financial Reporting, and ACN112 Advanced Company Accounting

ACN111 Financial Accounting Honours

The subject aims to provide students with an understanding of the nature and development of accounting theory. Students will be exposed to a broad coverage of the accounting literature and will be expected to develop an understanding of the nature of research in accounting. Topics covered include the nature, methodology and development of accounting theory, incentive problems and contracting solutions associated with the issue of debt and equity, contracting explanations for external financial reporting, accounting policy choice and the value of the firm, and accounting and the political process. Credit Points: 12

ACN112 ADVANCED COMPANY ACCOUNTING

This subject is primarily concerned with the accounting for intercompany investments. It involves an analysis of relevant Australian and overseas accounting standards - in particular, standards involving goodwil, business combinations, investments, consolidation, equity accounting and accounting for joint ventures. Furthermore, the consolidation method will be discussed in detail with particular reference to topics such as changes in ownership of shares, mutual shareholdings, foreign subsidiaries, different classes of shares and funds statements.

Credit Points: 12

ACN114 ACCOUNTING RESEARCH

The subject overviews the research methodology used in the field of accounting, and considers at a pragmatic level the use of certain research techniques in order to assist students in their research dissertation and preparation of research papers. The subject aims to develop a capacity to analyze and evaluate the literature in accounting research publications, and skills in research methodologies for undertaking individual research in accounting. This subject is a prerequisite for ACN950 Dissertation and should, therefore, normally be attempted immediately prior to enrolment in ACN950 Dissertation.

Credit Points: 12

ACN118 INTERNATIONAL ACCOUNTING

Examination of accounting and auditing functions in the context of multinational corporations. Discussion of environmental influences on accounting practices, accounting for changing prices, taxation, foreign currency translation, multinational transfer pricing and performance evaluation. Role and impact of international accounting standards and auditing guidelines from IFAC and relationship to Australian accounting and auditing standards. Financial reporting and the analysis of foreign financial statements are also included.

Credit Points: 12

ACN119 COMPANY SECRETARIAL PRACTICE

The purpose of this course is to examine particular aspects of company law which are of practical relevance to persons who act as company sccretaries or as advisers to such persons. The role, obligations and liabilities of the company secretary are covered in detail, as are the different methods of raising public funds and the listings requirements on the main and second board. Company charges with emphasis on statutory provisions and floating charges, and various aspects of insolvency, with an analysis of the role of provisional liquidators as well as schemes of arrangement are also covered.

Credit Points: 12

ACN120 PROFESSIONAL YEAR MODULE - AUDIT & EDP

See ACN125 Auditing Standards & Practice, and ACN121 Computer Auditing

This subject introduces students to the fundamental principles of the practice of computer auditing. Topics covered include the auditor and the computer, the study and evaluation of internal control in a computerised application, an understanding of the general and application controls applicable to an accounting application, the audit trail in computer data processing and applicable computer audit tools and techniques. In discussing these topics consideration will be given to both min and micro computer systems. Credit Points: 12

ACN122 AUDIT SAMPLING

This subject examines statistical sampling methods proposed for and employed in the performance of audits. Discussion centres on relevant statistical con-



cepts rather than on unique computational issues. Topics covered include the audit sampling process, auditor decisions and risk of error, attribute, variable and probability proportional-to-size sampling. **Credit Points:** 12

ACN123 INTERNAL AUDITING

The subject aims at providing specialist training in the area of internal and operational auditing. Topics covered will include the techniques generally used by the internal auditor, the need for efficiency or value-for-money auditing and the role the internal auditor must play in large organisations (public and private). Credit Points: 12

ACN124 AUDITING HONOURS

The subject is designed to familiarise students with current research in auditing and develop an awareness of research opportunities in auditing. It covers the nature of auditing research, the role of auditing, independence, reporting, liability, fraud detection, audit process, risk, materiality, internal control, analytical review, computer auditing, and auditing standards. **Credit Points:** 12

ACN125 AUDITING STANDARDS & PRACTICE

An examination of relevant auditing standards and their implications for practice, development of an analytical approach and the ability to exercise professional judgement to audit problems. Credit Points: 12

ACN126 FINANCIAL REPORTING

This subject aims to study in detail the requirements for the preparation and presentation of financial statements in accordance with various professional and statutory reporting requirements. In addition, analysis and interpretation of financial statements and the conceptual framework will be covered.

Credit Points: 12

ACN127 EXTERNAL REPORTING ISSUES

This subject involves the consideration of a number of contemporary issues in external reporting. Various practical accounting and reporting issues covered include accounting for extractive, long-term construction contracts, segment reports, foreign currency translation, leasing, tax-effect accounting, cash flow statements and accounting for off-balance sheet financing. Appropriate statements of accounting standards (both Australian and overseas), relevant discussion papers published by the Australian Aecounting Research Foundation, recent accounting journal articles and case studies are used in analyzing these topics.

Credit Points: 12

ACN151 FINANCE HONOURS

An advanced coverage of the theory of financial management, building on work done in the undergraduate course with reference to empirical evidence where available. Topics covered include capital markets, consumption and investment, investment decisions, market equilibrium, the capital asset pricing model, arbitrage pricing theory, capital structure (theory and evidence), dividend policy (theory and evidence). The subject provides a theoretical basis allowing for evaluating policy problems in the area of financial management, a necessary prerequisite for further specialisation in this area.

ACN152 ADVANCED CAPITAL BUDGETING

The aim of the subject is to develop an in-depth understanding of the theory and practice underlying the firm's investment and financing decisions. This will be achieved by a series of case studies which require the student to apply theory to practical situations not covered in normal undergraduate courses. The subject covers the firm investment decision and its application in practice. Topics include capital investment analysis, adjusted present value, retirement decisions, unequal lives, cost of capital, estimating beta, capital rationing, valuation of new issues, mergers and takeovers. **Credit Points: 12**

ACN153 INTERNATIONAL FINANCE

The finance function in the context of multi-national corporations and overseas financial markets. The subject will focus on the firm's financing, investing and dividend decisions in the international market place. Topics covered include foreign currency translations in a reporting and decision making context, multi-national transfer pricing, performance evaluation, an introduction to international financial markets, exchange risk exposure, multi-national financial markets, finance to parent companies (dividends, loan repayments), finance of export trade, host country legislation and its impact on multi-national companies. **Credit Points:** 12

ACN155 FINANCIAL MODELLING

The subject will cover the techniques of financial modelling (forecasting, risk analysis, optimisation); model specification, model structure and programming the model; the use of the computer in cash management, financing and investment planning; sensitivity analysis and simulation. Particular emphasis will be placed on solving practical problems using computers, electronic spreadsheets, and modelling applications.

Credit Points: 12

ACN156 FINANCIAL RISK MANAGEMENT

This subject is designed as a complete unit in itself. Emphasis will be placed on how security prices are determined and on market behaviour. Equal emphasis will be placed on institutional detail and the valuation methods used in practice. Finally students will be introduced to applied research into share price behaviour. Topics covered include the efficient market hypothesis; portfolio theory; the capital asset pricing model; the valuation of fixed interest securities; the valuation of common shares; the valuation of options, warrants and convertible securities.

Credit Points: 12

ACN170 PROFESSIONAL YEAR MODULE - TAXATION

See ACN171 Advanced Taxation and ACN172 International Law

ACN171 ADVANCED TAXATION

The objectives of this subject are to provide a conceptual analysis of the Australian income tax system in order to give perspective and meaning to the considerable body of technical law; the analysis proceeds under the broad headings of income and capital gains, deductions, tax accounting, entities, avoidance and administration; and to provide an in-depth treatment of some complex practical problems raised by the Income Tax Assessment Act and related legislation. **Credit Points:** 12

ACN172 INTERNATIONAL LAW

This subject seeks to convey principles of Australian income tax law and practice as they apply to situations and transactions with an international element. The broad areas covered are: the root principles of jurisdiction, residence and source; substantive provisions -resident earning overseas income and non-resident earning Australian income; and tax planning arrangements and applicable anti-avoidance legislation. Credit Points: 12

ACN174 LIQUIDATIONS & RECEIVERSHIPS

This subject is designed to balance an advanced study of the legal rules and standards governing insolvency with a practical consideration of the role of liquidators and receivers. In particular, one aim of the subject is to inform students of the procedural and documentary steps involved in liquidations and receiverships. Prominent recent corporate insolvencies will be examined and students will be given the opportunity to participate in case study and technical seminars. **Credit Points:** 12

ACN175 COMMERCIAL LAW HONOURS

The objectives of the subject are: to give students the opportunity to obtain a detailed understanding of the rules governing local and foreign takeovers and mergers; to examine prominent takeovers that have recently occurred; to consider the managerial and taxation aspects of takeovers; and to participate in seminar presentations on relevant takeover issues. **Credit Points:** 12

ACN176 INDIRECT TAXATION

This subject considers taxes relevant to the conduct of a business other than taxes directly imposed on a taxpayer's income and capital gains. The taxes considered come under the general heading of indirect taxes as the burden of such taxes does not fall fully on the person who pays the tax, but is rather shifted to another person, e.g., the ultimate consumer of goods and services. Some of the taxes and duties considered may not always strictly fit within this definition but nevertheless come within the ambit of a study of this nature.

Credit Points: 12

ACN177 TAXATION POLICY HONOURS

This subject examines the Australian taxation system as it has evolved under the policy making powers of the Australian Government. In the first place the system is analyzed in terms of its degree of concordance with traditionally recognised tax policy objectives. In the second place specific forms of taxation are appraised, and in the third place tax reform proposals are critically assessed.

Credit Points: 12

ACN178 TAXATION & PROFESSIONAL PRACTICE

This subject applies technical expertise in income tax and other revenue laws to specific tax planning situations including employment, retirement, investment, business and professional practice. In addition, analysis is made of the various incentives offered by the Government under the Income Tax Assessment Act and by way of grants and other forms of assistance. Consideration is also given to the professional responsibilities of the tax practitioner, and judicial, statutory and professional responses to tax avoidance and evasion.

Credit Points: 12

ACN231 MANAGERIAL ACCOUNTING HONOURS

An advanced coverage of the theory of management accounting, building on the work done at undergraduate level. The subject will introduce students to the current research in management accounting, with a view to developing and encouraging their own research expertise and endeavours. Topics include: cost estimation, behaviour and statistical techniques, advanced variance analysis and investigation, agency theory, contingency theory and cost allocation, advanced transfer pricing, structure of the firm and its impact on managerial accounting, contemporary developments.

Credit Points: 12

ACN232 MANAGERIAL ACCOUNTING ISSUES A

An advanced managerial accounting subject that examines the theoretical issues associated with the design, operation and evaluation of management accounting systems. In particular, this subject will concentrate on issues surrounding the firm's planning and control decisions as well as introducing and analyzing some of the newer concepts and techniques currently available to contemporary management. The subject will consist of formal seminars, problem solving and case studies.

Credit Points: 12

ACN233 MANAGERIAL ACCOUNTING ISSUES B

An advanced managerial accounting subject that examines the practical managerial accounting issues currently facing contemporary management. The subject will concentrate on analysing the implications of the issues raised, and attempting to apply these issues to a practical framework to assist in managerial decision making and control. The subject will consist of formal seminars and presentations by the students, problem analysis and solving, and case studies. Topics include: advanced budgeting techniques, program budgeting, and variance investigation.

ACN813 ACCOUNTING PRINCIPLES

This introductory unit will include topics such as: accounting concepts and principles, development of the profit and loss account and balance sheet, reporting aspects of the balance sheet, asset and liability recognition and management, cost/volume/profit analysis, manufacturing costs, budgeting, and special managerial decision-making.

Credit Points: 12 Contact Hours: 3 per week

ACN834 BUSINESS LAW & BUSINESS ETHICS

This subject will provide an introduction to business law and to morality in the business context. The course will cover such areas as interpretation of statutes, law of torts, contract law, industrial law and the utility of business structures. The course will also consider morality in the business community. It aims to prepare students for the pitfalls of moral propaganda, and to provide them with some insight into the power of moral persuasion, including who has such power and why, and the use of such power.

Credit Points: 12 Contact Hours: 4 per week

ACN835 FINANCIAL MANAGEMENT

This subject provides a broad introduction to the world of finance and financial management. Emphasis will be given to developing a sound conceptual framework for dealing with the financial problems of business. Topics will include: the finance function,



the role of the financial manager, the Australian financial environment, sources of funds, present and future value, time value of money, financial mathematics, cost of funds, the firm investment decision, investment evaluation techniques, cash budgeting, working capital management, capital budgeting, dividend policy, and financial structure policy.

Prerequisite: Accounting Principles

Credit Points: 12 Contact Hours: 3 per week

ACN950 Dissertation Prerequisite: ACN114

ACP111 ACCOUNTING PRINCIPLES I

This subject aims to develop the students' ability to interpret and use corporate financial statements. The subject is concerned with both the preparation and the use of financial accounting data and emphases the reconstruction of economic events from published accounting reports. The subject, although predominantly about accounting, is directed toward a management rather than an accounting viewpoint.

ACP213 QUALITY COST ANALYSIS

The subject aims to be able to relate programs in quality assurance to an overall cost control strategy in order to achieve the goals of the business as expressed in its periodic budget, and be able to administer the cost of quality assurance as a part of a control and recovery program which is indicated by variances from budget and as part of a programme for increasing cost effectiveness. Students are introduced to the terminology used in accountancy and the accounting reporting cycle. Emphasis is given to understanding the nature of cost objectives, operational costing, CVP analysis and the variance analysis framework.

Credit Points: 6 Contact Hours: 3 per week

ARB189 WRITING FOR DESIGNERS I

Offered: Autumn

The writing process: style, accuracy and simplicity in writing; the editing process. To develop students' ability to research, plan, write and present tertiary-standard written communications.

Credit Points: 4 Contact Hours: 2 per week

ARB190 WRITING FOR DESIGNERS II Offered: Spring

Writing for the design professional; review of organisation and mechanics; types, formats, styles and review of professional documents; problems of technical style, bibliographic conventions and use of graphics.

Credit Points: 4 Contact Hours: 2 per week

ARB191 THE HUMAN ENVIRONMENT I Offered: Autumn

The dimensions and movement of the human body, and its perceptual systems, as an essential preliminary to the design of all artefacts for human use. The course will consist of lectures and studio exercises. Lecture topics include: static and dynamic anthropometry; human sensory systems; introduction to ergonomics; applications of anthro-pometrics and ergonomics to design.

Credit Points: 4 Contact Hours: 2 per week

ARB192 THE HUMAN ENVIRONMENT II Offered: Spring

Human needs and the influence of selected interpersonal and physical variables on human behaviour. It encompasses the characteristics and dynamics of group behaviour. Communication process, types, and networks. Concepts of power, leadership and conflict. Observation of behaviour: research methods, interpretation and presentation of research. Environmental stressors and their mediation by individual differences. Credit Points: 4 Contact Hours: 2 per week

ARB193 DESIGN I

ARB194 DESIGN II

Offered: Autumn, Spring

Lectures and studio work focusing on design definition; perception; elements and principles of design; effects of colour, texture, contour, pattern; human dimensions; anthropometrics; elements of aesthetics. A series of exercises develop basic skills to apply basic design principles, and to solve simple design problems. Descriptive geometry; architectural graphics and rendering; freehand drawing and sketching. **Credit Points**: 10 (both)

Contact Hours: 5 per week (both)

ARB195 TECHNOLOGY I

ARB196 TECHNOLOGY II

Offered: Autumn, Spring

Together, these subjects promote an understanding and develop a basic knowledge of materials, structures and construction in domestic scale buildings. Materials: The manufacture, supply, storage and application in buildings of timber and wood products, paints and clay products, concrete, ferrous and nonferrous metals, plastics. Construction: Conventional construction of simple, single-storey buildings; footings and floors, wall and roof framing, load bearing masonry, roofing, cladding. Experimentation/Workshop: A series of experiments in heat, light and sound. Use of tools and machinery in wood and metals. Structural testing of materials. **Credit Points:** 4 (both)

Contact Hours: 2 per week (both)

ARB197 HISTORY OF THE BUILT ENVIRONMENT I ARB198 HISTORY OF THE BUILT

ARB198 HISTORY OF THE BUILT ENVIRONMENT II

Offered: Autumn, Spring

The course reviews the development of man's artificial environment and its relationship to ideas, technology and the fine art from the earliest times to the present.

Credit Points: 2 (both) Contact Hours: 1 per week (both)

ARB288 DESIGN SCIENCE II

Offered: Spring

Continuation of the aims and principles as described in Design Science I.

Credit Points: 2 Contact Hours: 1 per week

ARB289 DESIGN SCIENCE I

Offered: Autumn

A study of the principles of science and their implications on the design of buildings and spaces. The application of these principles in the conceptual stages of design allowed by laboratory tests and computer evaluations of design proposals. The subject is divided into a series of modules, each related to potential studio design exercises.

Credit Points: 2 Contact Hours: 1 per week



ARB290 INTRODUCTION TO COMPUTING II

Offered: Spring

Computers as tools for drafting. Line graphics, plotting, computer-aided drafting, symbol libraries, dimensioning, computer drafting and offfice organisation. Comparison of available software packages.

Credit Points: 2 Contact Hours: 1 per week

ARB291 THE HUMAN ENVIRONMENT III Offered: Autumn

The social and cultural development of Australian urban environments, with particular reference to the local built environment. The study of human functioning in urban environments. Theory: privacy, personal space, territoriality, environmental meaning and cognition, cognitive maps and wayfinding, intercultural and intracultural differences. Application via examination and analysis of an urban environment with respect to its sociocultural function.

Credit Pnints: 4 Contact Hours: 2 per week

ARB292 THE HUMAN ENVIRONMENT IV

The interaction of formal organisations and institutions especially the organisation of work and government and the built environment. Small group theory and the effective group. Work and motivation. Management styles. Bureaucracy, its character and influence. Social analysis and social forecasting. Social interest groups in a pluralist society; mechanisms and processes of compromise. Australia's government system as relating to public policy and the electoral system. Modern society and the individual. **Credit Points: 4 Contact Hours:** 2 per week

ARB293 DESIGN III

Offered: Autumn, Spring

The concepts of design process to develop a systematic methodology in architecture design. Scope of design; Reitman's State Transformation model; problem solving methods; precedence diagrams; testing; general design heuristic; the art of design. Planning objectives and techniques, privacy and convenience, intelligibility, forms and order, history of planning techniques, the vertical dimension, safety, external constraints.

Credit Points: 10 Contact Hours: 5 per week

ARB294 DESIGN IV

Offered: Autumn, Spring

A series of architectural projects of single storey to low rise buildings of domestic or semi-domestic nature. Use of media for presentation of architectural projects; use of colour, shade, shadow in architectural drawings; 3D presentation and modelling.

Credit Points: 8 Contact Hours: 4 per week

ARB295 BUILDING CONSTRUCTION I

ARB296 BUILDING CONSTRUCTION II

Offered: Autumn, Spring

Building construction of domestic and semi-domestic buildings with upper floors. Excavation, retaining walls, culverts. Site and soil investigations, footings, frames and load bearing, construction of low-rise buildings. Roofing of medium and large spans. Environmental factors, building defects and remedies. **Credit Points:** 4 (both)

Contact Hours: 2 per week (both)

ARB297 PRINCIPLES OF STRUCTURES I

Offered: Autumn

The basic principles of structures as applicable to elements of architecture, industrial design, interior design and landscape architecture. The study is qualitative and a minimum of mathematics is used. Emphasis is given to visual and conceptual appreciation of structures.

Credit Points: 2 Contact Hours: 1 per week

ARB298 PRINCIPLES OF STRUCTURES II Offered: Spring

The principles and their application to building structures in timber and masonry. Priority is given to structural concepts, and structural design is limited to approximation of overall dimensions.

Credit Points: 4 Contact Hours: 2 per week

ARB299 INTRODUCTION TO COMPUTING I

Offered: Autumn

The computer as a tool. Introduction to micro-computer hardware and software, architectural application overview, specialised graphics hardware, files, computer access, and operating systems. Simple computer graphics production symbols, colour control, printer control, transformation and deformations.

Credit Points: 2 Contact Hours: 1 per week

ARB386 LAW OF THE BUILT ENVIRONMENT

Offered: Spring

Laws, regulations and their interpretation. A review of the Australian and Queensland Acts, local authority by-laws and regulations of statutory authorities as they affect the built environment. Legal aspects of land and land transfer. Introduction to professional liability, design registration, patents and copyrights. Credit Points: 4 Contact Hours: 2 per weck

ARB387 ENVIRONMENTAL IMPACT STUDIES

Offered: Autumn

Ecological impacts of built environment developments such as roads, railways, power lines, buildings. Impact of processes of developments upon natural resources, vegetation, soils, hydrology, air purity etc. Secondary effects of development such as fire, feral animals, weeds, added nutrients, tramping, etc. Rehabilitation of disturbed ecosystems. Maintaining urban habilats and wildlife. Field work will form part of this subject.

Credit Points: 2 Contact Hours: 1 per week

ARB388 DESIGN SCIENCE IV

Offered: Spring

Continuation of the aims and principles as described in Design Science III. Principles governing control of noise and aural conditions in buildings. Basic acoustic design and noise control in buildings. Artificial lighting of interiors, lamp characteristics, colour rendering, modelling, lighting quality, simplified lighting design methods, and external lighting. Credit Points: 2 Contact Hours: 1 per week

ARB389 DESIGN SCIENCE III Offered: Autumn

Thermal performance of buildings. Energy conservation and low energy design. Calculation of heat flow and indoor temperatures under steady state and fluctuating conditions. Quantitative monitoring of thermal performance of building elements. Credit Points: 2 Contact Hours: 1 per week



ARB391 BUILDING SERVICES I

Offered: Autumn

This subject is designed to develop an understanding of domestic building services and their integration in the design and construction of small buildings. It covers supply, connection and reticulation of electricity, gas, water and telephone services and relevant outlets and appliances. Sewerage, sullage and stormwater drainage as applicable to domestic buildings. Domestic waste disposal.

Credit Points: 4 Contact Hours: 2 per week

ARB392 BUILDING SERVICES II

Offered: Spring

Mechanical electrical and hydraulic services and their integration in the design and construction of major buildings.

Credit Points: 4 Contact Hours: 2 per week

ARB393 BUILDING DESIGN V

ARB394 BUILDING DESIGN VI

Offered: Autumn, Spring

The building as object, surface, volume, space, and sequence. Expression of buildings. Criteria of good design in terms of style, function, form, structure, scrvices, context, environment, society, and other relevant issues. Design ethics and values. A series of architectural projects of low to medium rise with emphasis on industry and commerce. Integration with architectural science. Flow charting. Building type analysis. Computers in design. Three dimensional modelling. Computer aided planning analysis and environmental control analysis, climate analysis, integration with design process.

Credit Points: 10 (ARB393); 8 (ARB394)

Contact Hours: 5 (ARB393); 4 (ARB394) per week

ARB395 CONSTRUCTION III

ARB396 CONSTRUCTION IV

Offered: Autumn, Spring

Contemporary construction, concentrating on nondomestic buildings and furthering the understanding of the links between structural theory, building science, construction and design.

Credit Points: 2 (both) Contact Hours: 1 per week (both)

ARB397 PRINCIPLES OF STRUCTURES III Offered: Autumn

The principles and their application to building structures in steel. Structural properties of mild steel and high tensile steel. Structural framing and connections. Structural systems in steel: beams and columns, portal frames, space frames, trusses, tensile structures, approximate sizing.

Credit Points: 4 Contact Hours: 2 per week

ARB398 PRINCIPLES OF STRUCTURES IV Offered: Spring

The principles and their application to building structures in reinforced concrete. Structural behaviour of reinforced concrete. Basic theory of reinforced concrete beams and columns. Structural elements systems in reinforced concrete: post-and-beam, one and two-way slab, T and L-beam, waffle slab, flat slab, flat plate. Columns. Frames. Framing, walling and roofing in reinforced concrete. Approximate sizing.

Credit Points: 4 Contact Hours: 2 per week

ARB491 HISTORY OF ARCHITECTURE & ART III

Offered: Full year

Early colonial architecture. Victorian Australia. Gothic and Classical revival in Australia. The Australian house. Modern architecture in Australia. Conservation and preservation. Australian landscape and its influence in architecture.

Credit Points: 2 Contact Hours: 1 per week

ARB493 DESIGN VII

Offered: Full year

Masters of the 20th Century in Europe and the U.S.A. and their architectural styles, design philosophy and influence. Architects in Australia and their influence in Australasian architecture. Major design projects including brief, design, construction, services and landscape. Also a series of architectural projects of medium to high rise construction with emphasis in workability and compliance with eodes, by-laws and regulations.

Credit Points: 10 Contact Hours: 5 per week

ARB495 PROFESSIONAL STUDIES I

Offered: Full year

The concepts and writing of building specifications. How to interpret and to apply the Standards Association of Australia Codes and other standards. Acquisition of the skills and knowledge to use computers as management tools. Estimating and Accounting: financial aspects of professional practice. Building Legislation: the law as a constraint in architectural practice. Computer Applications: the skills and knowledge to use computers as management tools.

Credit Points: 8 Contact Hours: 4 per week

ARB497 ADVANCED TECHNOLOGY

Offered: Full year

The aim of these subjects is to develop an initial understanding of mechanical, electrical, electronic and special services and the integration in the design and construction of major buildings and to understand the approximate sizing of service requirements. Subsequently to understand construction methods and specification of complex and high-rise buildings. Emphasis is on case studies.

Credit Points: 4 Contact Hours: 2 per week

■ ARB591 HISTORY OF ARCHITECTURE & ART IV

Offered: Full year

A global perspective of development of art and architecture of regional interest with particular emphasis on non-European traditions. Architectural development in Regions such as the Far East, South East Asia, the Pacific, and South America are offered and students are to select one region for study in each semester. The topics include planning of settlements, indigenous architecture, materials and techniques in building construction, social, cultural, economic, religious, and western influencc. Modernisation, current architecture issues.

Credit Points: 2 Contact Hours: 1 per week

ARB593 DESIGN VIII

Offered: Full year

Architectural criticism. Main themes selected for design and their realisation, convenience, clarity, intelligibility, expression, technology, context form. Post-occupancy evaluation. Testing methodology, analysis and evaluation of building performance, user-oriented design. A series of architectural projects of medium to high rise buildings involving general



building briefs and programmes, environmental impact issues, and post-occupancy analysis.

Credit Points: 10 Contact Hours: 5 per week

ARB595 PROFESSIONAL STUDIES II Offered: Full year

Building Economics: the economics of buildings, building financing and feasibility; studies of building projects. Practice Management: methods of management in architectural practice. Legal Studies: the legal problems in architectural practice. Contracts: the nature of building contracts and their application. Credit Points: 8 Contact Hours: 4 per week

🖾 ARB597 ELECTIVE I

Offered: Full year

Students who wish to carry out further studies in architecture may choose from the prescribed fields of study, one for each semester. Students are directed by tutors to carry out surveys, experiments, or such work as required and are to present their findings in seminars and in written reports. Students may also substitute the requirements of this subject by an approved subject on campus, or offered at an approved institution.

Credit Points: 4 Contact Hours: 2 per week

ARB693 DESIGN IX

Offered: Autumn

Contemporary architectural theories and ideas and their influence in architectural design and practice. The process of hrief, functional and space programming of architectural design projects. An introduction to urban values, design principles and landscape/townscape, to acquire skills in civic and formal planning, and techniques to evaluate urban quality. A comprehensive project of groups of complex buildings is used as a design vehicle to develop planning skills, including brief formation and building programming, quality evaluation, planning, and presentation.

Credit Points: 18 Contact Hours: 9 per week

ARB695 PROFESSIONAL STUDIES III

Offered: Full year

Alternative methods of building procurement with particular emphasis on management of all phases of the building project.

This subject is desinged to assist students to reach a high level of professional competence and to prepare them for the Practice Examination set by the Board of Architects, Queensland under 'The Architects Act, 1962', and subsequent amendments.

Credit Points: 4 Contact Hours: 2 per week

ARB697 ELECTIVE II

Offered: Full year

Students carry out studies on approved topics of their nomination to sufficient depth. The work shall demonstrate the student's ability to define and to logically analyse proposition, and to conduct research to prove its validity. The submission is normally presented in the prescribed written form with illustrations and/or drawings.

Credit Points: 11 Contact Hours: 4 per week

ARP501 INTRODUCTION TO FACILITIES MANAGEMENT

Offered: Autumn

The concept of facilities programming and management. The notion of human behaviour over time and the monitoring of building performance as the major focus in the day to day management of facilities in a realistic working environment.

Credit Points: 8 Contact Hours: 2 per week

ARP502 ENVIRONMENTAL COMMUNICATIONS

Offered: Autumn

A series of lectures, site visits and projects relating to the design and application of alphabets and factors influencing perception of them in signage systems, display and exhibition, the design of exhibition and display systems, transportation, materials and specifications associated with their construction. Credit Points: 13 Contact Hours: 5 per week

ARP503 WORKPLACE DESIGN

Offered: Autumn

A series of lectures, seminars and projects concerned with physiological, psychological, and sociological aspects of the workplace, involving furniture systems, equipment and services.

Credit Points: 12 Contact Hours: 5 per week

ARP504 PROFESSIONAL PRACTICE & MANAGEMENT FOR INTERIOR DESIGNERS 1

Offered: Autumn

This subject explores the role and responsibilities of the industrial designer in professional practice: job administration, liability, design protection, designer and client relationships; communication management and organisation of project.

Credit Points: 11 Contact Hours: 4 per week

ARP505 PROFESSIONAL PRACTICE & MANAGEMENT FOR INTERIOR DESIGNERS II

Offered: Autumn

A series of seminar/tutorials, case studies and assignments concerned with such topics as: task scheduling; planning systems and control models; program evaluation and review techniques; critical path monitoring; organisational development; personnel recruitment and staffing structures; organisational models; union and labour relations.

Credit Points: 4 Contact Hours: 2 per week

ARP600 BUILDING EVALUATION & BRIEF DEVELOPMENT

Offered: Autumn, Spring

Formulation of the client's brief, definition of the design problem and exploration of design methodologies. Evaluation of building types, suitability of spaces to functions.

Credit Points: 8 Contact Hours: 3 per week

ARP601 FILM, TV & DESIGN FOR THEATRE

Offered: Spring

Introduction to the basic language, technology and procedures of film and video production, roles of production and design teams, script analysis, preproduction planning, story boarding, set design and construction, modelmaking, make up design, lighting and camera work. This will be given through a series of lectures, visits and projects.

Credit Points: 16 Contact Hours: 6 per week

ARP602 CONSERVATION OF HISTORIC INTERIORS

Offered: Spring

A series of lectures, visits and a design project, covering the role and ethic of conservation in interior design.

Credit Points: 16 Contact Hours: 6 per week



ARP603 HISTORIC TECHNOLOGIES

Offered: Spring

An introduction to the interior and building technologies required by a practicing interior designer working on conservation, restoration and recycling projects. Knowledge gained in this subject will be applied in "Design of Historic Interiors".

Credit Points: 8 Contact Hours: 4 per week

ARP613 ADVANCED ERGONOMICS I

Offered: Autumn

Man-machine system and their relations with living and working environment; the importance of ergonomics (human factors) criteria and their application to industrial design. The course consists of series of seminars relevant to case studies concerned. Typical case studies are concentrated on the ergonomic evaluation of consumer products.

Credit Points: 2 Contact Hours: 1 per week

ARP623 ADVANCED ERGONOMICS II Offered: Spring

Systematic ergonomic evaluation methods and their application to design problems. Lectures and seminars relevant to case studies concentrated on the ergonomic evaluation of the working and living environment, e.g., key-punch operator work station, bus driver work station and ergonomic evaluation of an assembly line.

Prerequisite: ARP613 Credit Points: 4 per week Contact Hours: 2 per week

ARP642 CASE STUDIES

Offered: Autumn

This subject consists of a series of seminars dealing with case study evaluation by practicing designers; study of different evaluation methods and techniques; the application of evaluation methods through individual case studies. All design factors of manufactured products are evaluated in depth. Credit Points: 4 Contact Hours: 2 per week

ARP652 DESIGN MANAGEMENT & DECISION THEORY

Offered: Spring

This subject covers: meaning of the design process, control and the design process, complexity of design problems, types of contracts, design and business, project team, design responsibility and design management, design documentation, concept of design evaluation and management action, application of design theory to design management.

Credit Points: 2 Contact Hours: 1 per week

ARP653 PROFESSIONAL PRACTICE

Offered: Spring

This subject explores the role and responsibilities of the industrial designer in professional practice. Lectures cover: job administration, liability, design protection, designer and client relationships. Credit Points: 2 Contact Hours: 1 per week

ARP671 HISTORY, THEORY & CRITICISM OF INDUSTRIAL DESIGN

Offered: Autumn

This subject reviews the development of industrial design and its relationship to ideas, technology and arts, and the development of industrial design from eighteenth century to the present day. It also covers the study of Australian inventions and their impact on product design in Australia.

Credit Points: 2 Contact Hours: 1 per week

ARP672 INDUSTRIAL DESIGN I

ARP673 INDUSTRIAL DESIGN II Offered: Autumn, Spring

This course consists of studio work in which students design a wide range of products or systems. The emphasis will be on projects generated from local industry and community. The complexity and depth of the design project will increase systematically according to the semester level.

Prerequisite: ARP672 for ARP673

Credit Points: 16 (both) Contact Hours: 6 per week (both)

ARP674 INDUSTRIAL DESIGN RESEARCH I

Offered: Spring

This course consists of the topic selected by a student and approved and supervised by the industrial design staff. Examples of topics are: microsurgical equipment design, bushfire safety equipment, mobile dental clinic in isolated regions, and interactive display in psychological testing.

Prerequisite: ARP673

Credit Points: 20 Contact Hours: 8 per week

ARP675 INDUSTRIAL DESIGN RESEARCH II

Offered: Spring

This course depends on the topic selected by a student in the previous semester. Students are responsible for the program as a part of their project work, which will be approved and supervised by Industrial Design staff. **Prerequisites:** ARP672, ARP674

Credit Points: 20 Contact Hours: 8 per week

ARP676 ADVANCED CAD FOR INDUSTRIAL DESIGNERS I

Offered: Autumn

CAD in the design process. 2D and 3D application of appropriate CAD programs. Development of a design project through the interactive use of CAD and related engineering programs as an aid to design analyses and finalisation.

Credit Points: 4 Contact Hours: 2 per week

ARP677 ADVANCED CAD FOR INDUSTRIAL DESIGNERS II

Offered: Spring

CAD/CAM in the design, analysis, and manufacturing process. 3D solid modelling, finite analyses, and CAM will be employed. A project will be taken from first concept through final documentation. The presentation, technical description, engineering analyses, and finalisation to Computer Numerically Controlled (CNC) testing and prototype production of a small product.

Credit Points: 4 Contact Hours: 2 per week

ASB101 STUDY SUPPORT SKILLS

Offered: Autumn

A series of workshops run by the Library and the Counselling Centre to assist students to utilise optimally time and resources. Topics include library resources and their use, note taking, effective reading and assignment writing skills, revision and examination techniques, time management.

Credit Points: 2 Contact Hours: 1 per week

ASB200 INTRODUCTORY METEOROLOGY

Offered: Spring

Historical introduction, the carth's atmosphere, heat transfer processes, the gas laws, the physics of water vapour, wind theory, atmospheric stability and in-



stability, precipitation, atmospheric electricity, meteorological observation, synoptic meteorology, atmospheric optics.

Credit Points: 8 Contact Hours: 3 per week

ASP701 INFORMATION RETRIEVAL SKILLS

Offered: Autumn

This subject, taught by the Division of Academic Support (in collaboration with Faculty staff in Modules 2 and 4) includes a relevant literature review. Module 1 - Retrieving Information; Module 2 -Evaluation of Information; Module 3 - Organising Information; Module 4 - Thesis Preparation. This subject is assessed on a pass/fail basis.

Credit Points: 4 Contact Hours: 2 per week

ASP702 COMPLEMENTARY STUDIES

Offered: Autumn, Spring

The unit is tailored to suit individual students - studies include a selection from: participation in research seminars; oral communication skills; written communication skills; formal coursework in occupational health and safety, scientific and industrial ethics, philosophy and methodology of science, and science policy and research funding options; development of research management strategies; preparation of a scientific paper/report; and coursework material from other accredited courses as directed by the project supervisor and Head of Department. Assessed on a pass/fail basis.

Credit Points: 16 Contact Hours: 8 per week

ASP703 STUDIES IN GLOBAL SYSTEMS A

ASP704 STUDIES IN GLOBAL SYSTEMS B

These subjects examine topics of current global concem to mankind from the perspectives of each of the participating disciplines (Biology, Geology and Chemistry) including: the enhanced greenhouse effect, ozone depletion, acid rain, pollution, soil erosion, toxic wastes and their disposal, sea level changes, and the laws and treaties which relate to them. Note: Students undertake either ASP703 or ASP704, not both.

Credit Points: ASP703 - 9; ASP704 - 6

Contact Hours: ASP703 - 3 per week; ASP704 - 2 per week

ASP705 ADVANCED MICROSCOPY TECHNIQUES

Offered: Autumn

This subject describes, and allows students to practice, preparative techniques relating to transmission (TEM), scanning transmission (STEM) and scanning (SEM) electron microscopy. Techniques include specialist fixation and staining (negative and position), thin sectioning, critical point drying/freeze drying, replica production, sputter coating and metal shadowing. Each technique is applied to a range of specimens and students familiarised with the use and manipulation of each type of microscope. The analytical capabilities of each instrument are also taught and used.

Credit Points: 9 Contact Hours: 4 per week

BEA004 TAXONOMY

Offered: Autumn

Investigation and identification of local flora and fauna; use and construction of keys. The concepts of systematics, classification, taxonomy and nomenclatural procedure are introduced in short lectures and tutorials associated with the practical exercises.

Credit Points: 8 Contact Hours: 3 per week

BEA011 ANIMAL PHYSIOLOGY

Offered: Spring

This unit introduces the general physiological processes which sustain life, and develops an understanding of animal-environment interactions.

Credit Points: 8 Contact Hours: 3 per week

BEA016 AQUACULTURE TECHNIQUES Offered: Autumn

Topics covered include: water quality monitoring; culture methods for microscopic food organisms; discase and parasite identification and treatment; and a variety of techniques associated with spawning, rearing, handling and stock assessment.

Credit Points: 8 Contact Hours: 3 per week

BEA021 PLANT PHYSIOLOGY

Offered: Autumn

An introduction to the important aspects of wholeplant physiology, including nutrition, water relations, photosynthesis, translocation and stress physiology. **Prerequisite:** BEA108

Credit Points: 8 Contact Hours: 3 per week

BEA026 PLANT CELL TISSUE CULTURE

Offered: Autumn

Topics covered include techniques, equipment and media used in plant tissue culture, the role of plant growth regulators, and micropropagation. The significance of organogenesis, somatic embryogenesis and genetic variability in plant tissue culture are discussed. The lecture program is supported by appropriate laboratory exercises.

Credit Points: 8 Contact Hours: 3 per week

BEA060 HYDROBIOLOGICAL TECHNIQUES

Offered: Autumn

An introduction to the characteristics of aquatic ecosystems. Students gain practical experience using methods, equipment and instrumentation to: estimate population abundance, distribution, biomass and productivity; determine community structure and diversity; determine physical characteristics and morphology and assess water quality. Compulsory field studies form a significant part of this subject.

Credit Points: 8 Contact Hours: 3 per week

BEA090 EXTERNAL PROJECTS I

BEA099 EXTERNAL PROJECTS II

Offered: Autumn, Spring (both subjects)

These two elective subjects enable students to submit studies carried out as part of their normal employment for credit in the course. Design and assessment of the experimental work program is carried out by the employer in conjunction with a supervisor appointed by the Head of Department/delegate.

Credit Points: 8 (both) Contact Hours: 3 per week (both)

BEA108 INTRODUCTORY BIOLOGY

Offered: Autumn

An introduction to the classification of organisms. Examination of the morphology, anatomy, reproduction, life-history and physiology of selected species. Credit Points: 8 Contact Hours: 3 per week

BEA198 MICROSCOPY TECHNIQUES

Offered: Autumn, Spring

This unit includes the use and roles of various types of optical microscopes; microscope accessories for counting, measuring, drawing and photography; procedures for preparing specimens for examination and histological/histochemical study.

Credit Points: 8 Contact Hours: 3 per week

📕 BEA200 BIOLOGY B 🕑

Offered: Spring

This unit extends the basic concepts presented in Introductory Biology and also includes aspects of mendelian genetics, gene expression and cell differentiation, as well as reproduction and development in selected animals and plants.

Prerequisite: BEA108

Credit Points: 8 Contact Hours: 3 per week

BEA202 CELL STRUCTURE & FUNCTION Offered: Autumn, Spring

A general course in cell biology including the living cell and its processes, structure and function. Photosynthesis, respiration, intermediary metabolism will be emphasised. Elementary molecular genetics will be outlined.

Credit Points: 8 Contact Hours: 3 per week

BEA297 BIOLOGICAL DATA HANDLING

Offered: Autumn, Spring

Application of statistical procedures to surveys, sampling and design of experiments. Recognition of problems arising from variability in results and particular data type. Methods of data collection, checking, analysis and presentation are discussed. An introduction to the use of computer software packages is included.

Prerequisite: MAA251

Credit Points: 8 Contact Hours: 3 per week

BEA339 INTRODUCTION TO BIOCULTURE

Offered: Autumn

This subject introduces students to techniques of algal culture and plant tissue culture. Topics include nutrition, continuous production techniques, and the use of growth regulators to control growth. The role of environmental factors in controlling growth also is discussed. This subject will provide the theoretical basis for students undertaking electives in aquaculture techniques and/or plant tissue culture.

Credit Points: 8 Contact Hours: 3 per week

BEA349 COMPUTER APPLICATIONS IN BIOLOGY

Offered: Autumn

An introduction to microcomputers and applicationssoftware such as wordprocessing, data bases, spreadsheets, and computer graphics for report presentation. This subject is not oriented towards any specific computer language.

Credit Points: 8 Contact Hours: 3 per week

BEA398 ANIMAL & PLANT TECHNIQUES Offered: Spring

Care and maintenance of animal and plant resources, both micro- and macroscopic. Animal handling, maintenance of glasshouse resources, culture collections and sterile techniques, preparation of specimens for permanent collections and the maintenance of such collections.

Credit Points: 12 Contact Hours: 4 per week

BEA403 ENVIRONMENTAL BIOLOGY

Offered: Autumn

Ecosystems and energy flow. Productivity, decomposition and nutrient cycling. Niche, species packing, diversity, colonisation and community structure. Short compulsory field trips form an integral part of the unit. Note: This subject is not compatible with BEA305, BEA405; credit may not be retained for more than one of these subjects.

Credit Points: 8

Contact Hours: 3 per week

BEA405 POPULATION BIOLOGY Offered: Spring

A general course in population biology including: structure and dynamics of populations, evolution and differentiation in populations; the relationships between the genetics, energetics and dynamics of populations leading to particular life-history strategies are emphasised. Field excursions are a compulsory part of the subject.

Note: This subject is not compatible with BEA305, BEA403; credit may not be retained for more than one of these subjects.

Co-requisite: BEA498

Credit Points: 8 Contact Hours: 3 per week

BEA498 FIELD TECHNIQUES

Offered: Spring

Activities include surveying, soil and climatic measurements, assessment and sampling of animal and plant populations, evaluation of spatial changes in plant and animal communities in relation to environmental gradients. Skills are gained not only in sampling and analytical techniques, but also in the establishment and running of a field camp. An extended field excursion is a compulsory part of the subject.

Co-requisite: BEA405

Credit Points: 8 Contact Hours: 3 pcr week

BEA499 APPLICATIONS IN ELECTRON MICROSCOPY

Offered: Autumn

This subject deals with the roles played by various forms of electron microscopy in the biological sciences and presents an introduction to the basic techniques and their limitations.

Prerequisite: BEA108 + BEA198

Credit Points: 8 Contact Hours: 3 per week

BEB103 BIOLOGY IA

Offered: Autumn

A course of lectures and tutorials dealing with fundamental biological principles and phenomena. Content includes nutrient procurement, transport systems and mechanisms, energy transformations, population and community biology, reproduction and basic genetics.

Co-requisite: BEB149, unless Senior Biology has been undertaken.

Credit Points: 8 Contact Hours: 3 per week

BEB104 BIOLOGY IB

Offered: Autumn

A program of practical work presenting aspects of applied biology, plant and animal physiology and basic genetics including bacterial transformation.

Co-requisite: BEB14 $\overline{9}$ unless Senior Biology has been undertaken.

Credit Points: 6 Contact Hours: 3 per week

BEB149 INTRODUCTORY BIOLOGY

Offered: Autumn

A companion subject to BEB103 and BEB104, designed for students who have not studied Senior Biology. It presents an overview of organisms with emphasis on the relationship between structure and basic biological function, including nutrition, excretion, reproduction and inheritance.

Credit Points: 6 Contact Hours: 3 per week

BEB201 CELL BIOLOGY

Offered: Spring

A program of lectures and tutorials chiefly concerned with the molecular biology of eucaryotic cells, their



structure, function, systems, metabolism and differentiation. The molecular basis for genetic manipulation and other current advances based in molecular genetics is introduced. Prerequisite: BEB149 or Senior Biology

Credit Points: 8 Contact Hours: 3 per week

BEB207 BIOLOGICAL SYSTEMS

Offered: Spring

This unit introduces general systems theory as a unifying concept in biology and its application to the study of simple biological systems. Emphasis will be placed on modelling techniques and a sub-unit in BASIC programming will provide students with an introduction to computer simulation of simple systems. Prerequisite: BEB149 or Senior Biology.

Credit Points: 8 Contact Hours: 3 per week

BEB303 BIOLOGY II

Offered: Spring

Comprises a study of plant form, function and classification with examples drawn from major plant and animal taxa.

Prerequisite: BEB103

Credit Points: 16 Contact Hours: 6 per week

BEB321 PLANT PHYSIOLOGY

Offered: Autumn

This unit develops an understanding of the functional systems of plants and provides an introduction to environmental physiology and plant tissue culture. Prerequisite: BEB103 + BEB201

Credit Points: 8 Contact Hours: 4 per week

BEB357 POPULATION & SYSTEMS ECOLOGY

Offered: Autumn

Topics to be covered include theoretical models dealing with natural regulation of population size, their limitations and applicability. Population processes and density-dependent feedback; life-history strategics. Energy flow models and dynamics, incorporating productivity and decomposition. Field excursions integrate environmental features with population processes.

Prerequisite: BEB207 Co-requisite: BEB358 Credit Points: 8 Contact Hours: 4 per week

BEB358 EXPERIMENTAL DESIGN

Offered: Autumn

This subject is offered in two sections. The first section of ten lecture-tutorials involves multiple and curvilinear regression, chi-squared goodness of fit, multiway analysis of variance, multiple range tests. The second section builds a practical extension on the theoretical basis of statistics, using experimental situations commonly met with in biology,

Co-requisite: BEB357

Credit Points: 8 Contact Hours: 3 per week

BEB366 BIOLOGY & SOILS

Offered: Autumn

The subject is an important basis for studies in both aquaculture and terrestrial ecology. Attention is given to the characteristics of soils, soil classification, and the factors (parent material, climate, topography and biota) which determine soil development. The structure and productivity of plant and animal communities, and the distribution of species are shown to be dependent on biogcochemical pathways, regulated by the soil, and on other conditions influenced by the substrate (including water quality). Consideration is given to the distribution of major soil types in relation to effective management of terrestrial and aquatic biota.

Prerequisite: BEB103

Credit Points: 8 Contact Hours: 3 per week

BEB388 AQUACULTURE I

Offered: Autumn

A largely practical subject which introduces students to a range of methods and techniques associated with the commercial production of aquatic animal species in hatcheries and on aquafarms. Topics covered include: water quality measurement and management; intensive production of food organisms; induction of maturation and spawning; nursing and rearing larvae and fry; feeding; diagnosis and treatment of health problems; handling and husbandry.

Prerequisite: BEB103

Credit Points: 8 Contact Hours: 3 per week

BEB390 FIELD STUDIES I

Offered: Spring

A series of weekend or extended field trips with an aggregate of 40 hours intensive field work in applied biology.

Prerequisite: BEB357

Credit Points 8 Contact Hours: 3 per week

BEB411 ANIMAL PHYSIOLOGY

Offered: Spring

The subject provides and develops an understanding of the functional systems of animals and provides an introduction to environmental physiology.

Prerequisite: BEB103

Credit Points: 8 Contact Hours: 4 per week

BEB423 PLANT TISSUE CULTURE I

Offered: Spring

This subject introduces students to the techniques and physiological basis of plant tissue culture. Topics covered include: culture media, organogenesis, somatic embryogenesis and micropropagation. It introduces a range of techniques used in research and commercial laboratories.

Prerequisite; BEB321

Credit Points: 8 Contact Hours: 3 per week

BEB429 VEGETATION STUDIES

Offered: Spring

This unit introduces many of the techniques used in vegetation mapping. Basic topics covered include: vegetation classification, floristics, sampling techniques, field surveying techniques and aerial photo-interpretation. There are several compulsory field excursions.

Prerequisite: BEB103 Credit Points: 8 Contact Hours: 3 per week

BEB435 GENETICS

Offered: Spring

This unit is an introductory subject in basic genetics. Topics covered include: reproduction and the genetic code, the molecular basis of genetics and Mendalian genetics; genotype-phenotype interactions and quantitative genetics; the genetics of prokaryote and simple eukaryote organisms; evolution and natural selection.

Prerequisite: BEB103 + BEB201

Credit Points: 8 Contact Hours: 3 per week

BEB444 POPULATION ANALYSIS

Offered: Spring

General principles of population analysis relating to conservation, control and harvesting. A rigorous individual study of two management problems parallels



field trips to agencies responsible for population analysis for management in Queensland.

Prerequisite: BEB357 + BEB358

Credit Points: 8 Contact Hours: 3 per week

BEB447 ENVIRONMENTAL MONITORING

Offered: Autumn

A course in the skills of environmental assessment, surveying and mapping plant ecosystems. Approaches to, and methods of, assessment. The lecture course is supported by field work in several environments using a range of instrumentation to delineate environmental profiles.

Credit Points: 8 Contact Hours: 3 per week

BEB490 FIELD STUDIES II

Offered: Autumn

A series of weekend or extended field trips with an aggregate of 40 hours intensive field work in applied biology. Credit Points: 8 Contact Hours: 3 per week

BEB500 SELECTED TOPICS I

Offered: Autumn

Students complete a study on a specific topic. Such study involves selected reference material and may also include a lecture program or project work.

Prerequisite: BEB357

Credit Points: 8 Contact Hours: 3 per week

BEB523 PLANT TISSUE CULTURE II

Offered: Autumn

The subject explores several aspects of plant tissue culture in some detail. Topics covered include cytogenetics and protoplast biology as well as aspects of the biochemistry of plants growing in tissue culture. **Prerequisite:** BEB423

Credit Points: 12 Contact Hours: 5 per week

BEB535 POPULATION GENETICS

Offered: Autumn

This unit is an extension of Introductory Genetics and examines in detail the genetics of populations. Topics eovered include: the genetic structure of populations and processes of evolutionary change; natural selection, inbreeding and co-adaptation; species and speciation theory; ecological genetics and the genetics of behaviour. Students may be required to undertake semester-long project topics on relevant practical or theoretical problems.

Prerequisite: BEB435

Credit Points: 8 Contact Hours: 3 per week

BEB560 PROJECTS I

Offered: Autumn

This unit develops a student's capacity for managing his/her own work and for persistence within a circumscribed subject area. Projects emphasise specific investigatory skills in reviewing, collating, interpreting and presenting data; contribution to a seminar is usually required. Projects, supervised by various staff members, are graded individually. The Head of Department co-ordinates assessment, and may request external assessment. Projects are to be selected by the 12th week of the fourth semester of the course. There are a number of compulsory field trips. This unit normally leads into BEB660 Projects II.

Prerequisite: BEB303 + BEB357

Credit Points: 16 Contact Hours: 6 per week

BEB563 BIOLOGICAL RESOURCES Offered: Spring

A conceptual basis for aspects of ecosystem management related to naturally-occurring materials and ecosystems subject to interactive use within the economy. Limitations on specific exploitation of natural resources are identified and linked with relevant aspects of land tenure, administration and law. Strategies leading to sustained yield and conservation are contrasted with those resulting in resource degradation.

Prerequisite: BEB103

Credit Points: 8 Contact Hours: 4 per week

📓 BEB588 AQUACULTURE II

Offered: Autumn

A course in theoretical and applied aspects of warmwater aquaculture. Subject content includes the design and operation of production facilities; water quality requirements and management; the biology of commercially important species; reproduction and its control; nutrition, feeding and growth; diseases and their control; methods of production improvement; polyculture; case studies.

Prerequisite: BEB388

Credit Points: 8 Contact Hours: 3 per week

BEB600 SELECTED TOPICS II

Offered: Spring

As a final semester subject, provides students with an opportunity to complete a detailed study on a specific topic. The study will normally be based on project work and may include a lecture program.

Credit Points: 8 Contact Hours: 3 per week

BEB621 PLANT PHYSIOLOGY

Offered: Spring

Lectures are designed to follow the sequence of biochemical events during life history of a plant. Topics covered include: starch and oil mobilisation during seed germination, biosynthesis of cell membranes, cell pigments (carotenoids, chlorophylls), and plant cell walls; photosynthetic assimilation of nitrogen and sulphur (overview of biosynthesis of all amino acids); biosynthesis of socalled secondary plant products, e.g., terpenoids, flavonoids, and the lignin component of wood; biosynthesis of starch and oils in new seeds. Laboratory classes emphasise techniques of value to plant biochemical research.

Prerequisite: BEB423 or MSB450

Credit Points: 8 Contact Hours: 4 per week

BEB653 POPULATION MANAGEMENT Offered: Spring

The principles of population management are illustrated from examples of economically important plant and animal populations (including pest populations). These are discussed and interpreted in terms of the ecosystem that supports them; various alternative management methods for sustained yield, production or conservation are emphasised; examples of habitat manipulation as a strategy preferable to the direct manipulation of numbers and the criteria for successful biological control programs are examined. The unit also introduces the economic, sociological and legal implications of management programs.

Prerequisite: BEB357

Credit Points: 8 Contact Hours: 4 per week

BEB655 CASE STUDIES

Offered: Spring

An extension of Population Management, this subject allows for the detailed study of populations of economic importance. Management strategies for both terrestrial and aquatic populations are presented. Topics cover the range of possible population manipulations including population stimulation, sustained yield and reduction. Major field trips allow students to undertake studies on important systems. **Co-requisite:** BEB653

Credit Points: 12 Contact Hours: 5 per week

BEB660 PROJECTS II

Offered: Spring

This elective unit may be undertaken by students who have taken BEB560 Projects I and who have the Head of Department's permission to continue project work. The student either: continues a project undertaken in BEB560, or involves one or more additional projects aimed at developing to a greater depth aspects of the subject matter of experimental subjects previously completed, such projects being established for either individuals or groups. Assessment is conducted as for BEB560. Individual programs for BEB660 are to be determined by the 12th week of the fifth semester of the course. There are a number of excursions. **Prerequisite:** BEB560

Credit Points: 16 Contact Hours: 6 per week

BEP700 PROJECT

Offered: Full Year

All students undertaking Honours are required to select and undertake, in consultation with a supervisor, a substantial project in an appropriate area. Each project will be assessed on the basis of an extensive written report and an oral presentation. Credit Points: 40

BEP701 ADVANCED PLANT PHYSIOLOGY & BIOCHEMISTRY

Offered: Autumn

Aspects of plant physiology and biochemistry of current research interest will be covered, expanding upon material in the third year Plant Biochemistry subject. Students will select from a reading list, present seminars and undertake advanced practical work.

Credit Points: 9 Contact Hours: 4 per week

BEP703 DATA HANDLING, INTERPRETATION & BIOMETRICS

Offered: Autumn

The subject covers the efficient organisation and manipulation of data using techniques available through personal computer software. Data manipulation programs are developed to facilitate the application of commercial software to the analysis and interpretation of experimental data.

Credit Points: 9 Contact Hours: 4 per week

BEP704 ADVANCED STUDIES IN POPULATION MANAGEMENT

Offered: Spring

Topics include: pest control and economics; chemical pesticides and their uses; biological control agents; autocidal control and genetic control; use of pheromones, attractants and repellents; resistant varieties, cultural and ecological control; physical methods of control; integrative pest management; quarantine. Conservation management; National Parks and protected areas management; legislation. **Credit Points:** 9 **Contact Hours:** 4 per week

BGB005 MEASUREMENT OF CONSTRUCTION 1

Offered: Autumn

Introduction to Quantity Surveying including the work of the Quantity Surveyor and his relationship with other members of the building industry. A study of mensuration and formulae involved in the calculation of length, area and volume. Detailed study and instruction in the process and methods of taking off and billing quantities in the trades roofer, and roof plumber, plasterer, pavior, tiler and terrazzo worker, joiner, ironmonger, glazier and painter.

Prerequisites: BGB151, BGB154

Credit Points: 6 Contact Hours: 3 per week

BGB006 MEASUREMENT OF CONSTRUCTION II

Offered: Spring

Detailed study and instruction in the process and methods of taking off and billing quantities in the trades excavator, concretor, bricklayer and blocklayer and carpenter.

Prerequisite: BGB005

Credit Points: 6 Contact Hours: 3 per week

BGB009 MEASUREMENT OF CONSTRUCTION III

Offered: Autumn

Detailed study and instruction in the process and methods of taking off and billing quantities in more complex building solutions in the trades excavator, concretor, bricklayer and blocklayer, underpinning, pier and beam RC frame and suspended slabs. **Prerequisites:** BGB254, BGB006

Credit Points: 4 Contact Hours: 2 per week

BGB010 MEASUREMENT OF CONSTRUCTION IV

Offered: Spring

Detailed study and instruction in the process and methods of taking off and billing quantities in the trades asphalter and built up roofing, demolisher, mason, structural steel and precast concrete. **Prerequisite:** BGB009

Credit Points: 4 Contact Hours: 2 per week

BGB013 BUILDING SERVICES I HVAC

Offered: Autumn

Minimum standards of ventilation required by the regulatory authorities - fans, centrifugal and axial flow and their applications. Ductwork and accessories, details of layout construction and installation. Requirements for human comfort in air-conditioning. The ASHRAE Comfort Chart; the principles of refrigeration. Types of air-conditioning systems and their composition; cost, application, construction and installation. Heating - fuel types, efficiency, capital and annual costs. Effect of building ordinances on design and installation of air-conditioning and ventilation systems.

Co-requisite: BGB253

Credit Points: 4 Contact Hours: 2 per week

BGB014 BUILDING SERVICES II -ELECTRICAL

Offered: Spring

Electricity supply and distribution. High and low tension supply. Measuring current, cut-outs, intake and distribution. Internal distribution. Large supply installation, sub-station. Fuse gear and switch gear. Wiring systems and circuits. Conduit and cables. Joint boxes, multi-box switching. Heading circuits. Earth connections. Protection of conduit, conductor and accessories against mechanical damage, weather, dampness, fire electric shock. Fibre optic cables in building supervisory systems. Assessment of maximum demand and voltage drop. Earth tests, Tools and handling equipment. Fastenings and supports. Measurement, control and lighting equipment. Accessibility and protection. Domestic, industrial and commercial appliances. Testing and fault locating. Credit Points: 4 Contact Hours: 2 per week



BGB103 MATERIAL SCIENCE I

Offered: Autumn

Properties, manufacture, use and analysis of timber, steel, concrete, and clay products, including investigation into their strength, density, hardness, porosity, plasticity, elasticity and deterioration. Invesligation and protection of materials against corrosion and fire.

Co-requisite: BGB254

Credit Points: 4 Contact Hours: 2 per week

BGB104 MATERIAL SCIENCE II

Offered: Spring

The aim of this subject is to develop an understanding of the physical and chemical properties of materials and how they affect the construction and structural qualities. It covers laboratory and field testing of bricks, mortar, brickwork, concrete, timber, steel. Investigation and protection of materials against corrosion and fire.

Credit Points: 4 Contact Hours: 2

BGB131 MEASUREMENT OF CONSTRUCTION IA (FULL TIME)

Offered: Spring

Subject description as for BGB005. Credit Points: 6 Contact Hours: 3 per week

BGB143 STRUCTURES I

BGB144 STRUCTURES II

Offered: Autumn, Spring

Equilibrium of forces. Shear forces and diagram, bending moments and diagram, loading on structures and loading code, truss analysis and force diagram, stress and strain, tension and compression members, bending theory, design of timber beams, eolumns and connections, design of steel beams and columns, introduction to indeterminate structures.

Prerequisite for BGB144; BGB143

Credit Points: 4 (both) Contact Hours: 2 per week (both)

BGB151 CONSTRUCTION I

Offered: Autumn

Materials and methods - the uses of materials and construction in single and two storey domestic structures-site information and investigation, foundations, columns, upper floors, external and internal walls, finishes, etc. Environmental, structural and aesthetic requirements of these structures taking account of the constraints such as costs, dimensional requirements, statutory regulations, life and adaptability and manufacturing and erection requirements. Draughting - preparation of typical details and working drawings. Environmental science - study of the factors and technology involved in creating comfort situations in varying climatic zones and their effect on building construction.

Credit Points: 12 Contact Hours: 6 per week

BGB154 CONSTRUCTION II

Offered: Spring

This subject is designed to develop an understanding of the properties of materials, and how they behave in the manufacturing and construction process and how these considerations relate to form and structure. It includes a studio and practical back-up to the lecture program. Students will be required to prepare working details of building components, co-ordination of building elements for specific building use.

Prerequisite: BGB151

Credit Points: 14 Contact Hours: 7 per week

BGB161 BUILDING STUDIES I

Offered: Autumn

The uses of materials and construction in single and two storey domestic structures-site information, substructure, columns, upper floors, external and internal walls, finishes, etc. Environmental, structural, aesthetic, cost, statutory, dimensional, manufacturing and erection requirements. Factors in creating comfort situations in various climatic zones and their effect on building construction. Draughting - preparation of typical details and working drawings. Physical and chemical properties of materials such as timber, steel, concrete and clay products and how they affect their construction and structural qualities.

Credit Points: 14 Contact Hours: 5.5 per week

BGB162 BUILDING STUDIES H Offered: Spring

The uses of materials and construction in single and two storey domestic structures under the elements staircase, roof, internal and external walls, windows, doors, finishes,

Environmental, structural and aesthetic requirements, taking account of constraints such as costs, dimensional requirements, statutory regulations, life and adaptability and manufacturing and erection requirements. Draughting - preparation of typical construction details and drawings.

Prerequisite: BGB161

Credit Points: 9 Contact Hours: 3.5 ner week

BGB164 BUILDING SERVICES IA Offered: Spring

A study of macro services to the community including water supply, sewerage, power, gas, telephone and other public services. Requirements of headworks and reticulations. A study of sanitation, septic tanks, absorption and transpiration beds, stormwater and sewerage disposal and garbage and refus, disposal, Hydraulic engineering services associated with buildings. Water supply (including fire fighting and hot water), sewerage and sanitary plumbing with a study of relevant Acts and laws, including sizing and testing of main and gravity fed services.

Credit Points: 6 Contact Hours: 2.5 per week

BGB166 URBAN ECONOMICS

Offered: Spring

An explanation of economic and financial aspects of the property and construction industries. This will cover the environment in which these industries operate, their structure, operation and control and the financial aspects of development projects.

Credit Points: 4 Contact Hours: 2 per week

* BGB243 LAW I - BUILDING ACTS & REGULATIONS

Offered: Spring

Procedure in passing and resolving Acts, regulations and by-laws. Procedure in collecting information on regulations and by-laws. Knowledgeable site representatives. A detailed study of the 1975 - 1981 Building Act, Appendix 4 to the Building Act, and Standard Building By-laws, which control the design and construction and building works in Queensland, with particular emphasis on Building Codes referred to in the By-laws. A study of the Health Act, Factories and Shops Act, Liquor Act, Acts Interpretation Act, Fire Safety Act and Town Planning Acts.

Co-requisite: BGB254

Credit Points: 5 Contact Hours: 2 per week



BGB245 MEASUREMENT OF CONSTRUCTION IB

Offered: Autumn

Detailed study and instruction in the process and methods of taking off and billing quantities in the trades of excavator, concretor, bricklayer, blocklayer and carpenter for simple buildings.

Prerequisites: BGB154, BGB131

Co-requisite: BGB253

Credit Points: 6 Contact Hours: 3 per week

BGB246 MEASUREMENT OF CONSTRUCTION IIB

Offered: Spring

Detailed study and instruction in the process and methods of taking off and billing quantities in more complex building solutions in the trades excavator, concretor, bricklayer and blocklayer in simple basement, underpinning, pier and beam, R.C. frame and suspended slabs. Detailed study and instruction in the process and methods of taking off and billing quantities in the trades asphalter and built up roofing, demolisher, mason, structural steel and precast concrete.

Prerequisites: BGB253, BGB245

Co-requisite: BGB254

Credit Points: 8 Contact Hours: 4 per week

BGB247 MATERIAL SCIENCE III

Offered: Autumn

Elements of material sciences: introduction to atomic structure and bonding and its effects on a material's engineering property. Elementary metallurgy of iron and steel. Non-ferrous metals and alloys. Joining of metals, fatigue, creep, brittle and ductile fractures, corrosion and protection. Properties, manufacture, use and analysis of fibrous cement, wood products, ceramics, polymers, paints, sealants and mastic products. Investigation into the material's strength, density, hardness, porosity, plasticity, elasticity, deterioration, optical, electrical, thermal and acoustie properties.

Prerequisites: BGB103, BGB104

Credit Points: 4 Contact Hours: 2 per week

BGB253 CONSTRUCTION III

Offered: Autumn

Extending the scope of Construction I and II to include a range of structures from industrial single to multistorey residential buildings. Study management, planning, and co-ordination necessary for successful construction including site layout, site establishment and material handling processes. Construction draughting and detailed drawings. Site visits and/or workshop.

Prerequisites: BGB154, BGB103, BGB104 Credit Points: 10 Contact Hours: 5 per week

BGB254 CONSTRUCTION IV

Offered: Spring An extension of Construction I, II and III, dealing with multi-storey commercial buildings. Prerequisite: BGB253 Credit Points: 12 Contact Hours: 6 per week

BGB257 STRUCTURES III

BGB258 STRUCTURES IV

Offered: Autumn, Spring

Analysis of indeterminate structures, frame analysis, moment distribution, design of steel connections and structures, concrete columns and walls, composite beams, theory of prestressed concrete, brickwork and concrete masonry design, design of retaining walls, substructures and foundations. Use of computers in structural design.

Prerequisites: BGB103, BGB104, BGB143, BGB144

Credit Points: 4 (both) Contact Hours: 2 per week (both)

BGB26I BUILDING STUDIES III

Offered: Autumn

Study of the materials and construction of a range of structures from industrial single to multistorey residential buildings - substructure, columns and upper floors, staircases, roof, external and internal walls, windows and doors, finishes, fire protection and fittings. Environmental, structural, aesthetic, cost, statutory, dimensional, manufacturing and erection requirements. Draughting - preparation of typical details and working drawings. Material science physical and chemical properties of materials such as non-ferrous metals and alloys, fibrous cement, ceramics, polymers, paints and sealants and how they affect their construction and structural qualities.

Prerequisite: BGB162

Credit Points: 12 Contact Hours: 5 per week

BGB262 BUILDING STUDIES IV

Offered: Spring

An extension of Building Studies III, dealing with multi-storey commercial buildings. It also looks at design appraisal - effect of design on users comfort, safety, energy usage, orientation, materials, layout, services, ageing and aesthetic composition.

Prerequisite: BGB261

Credit Points: 12 Contact Hours: 5 per week

BGB263 VALUATIONS I

BGB268 VALUATIONS II

Offered: Autumn, Spring

Concept of value and the methods and reasons for, and factors affecting the valuation of land and buildings. Property inspection procedure and report writing. Role of property within the investment market. Study of leasehold valuation, the concept of profit rent, sinking fund theory and the effect of tax. Valuation tables. Compound interest theory, determination of present value and the sum of an annuity, sinking fund theory. Principles of discounting, including tax adjusted tables. Investment method of valuation, including the determination of annual outgoings. The valuation of perpetual, fixed and varying income, mortgage calculation. Analysis of market information in determining yields and values.

Prerequisite for BGB268: BGB263

Credit Points: 5 (BGB263); 7 (BGB268)

Contact Hours: 2 (BGB263); 3 (BGB268) per week

BGB264 BUILDING SERVICES IIIA

Transportation of people and goods - passenger, goods and service lifts - planning disposition, control systems and construction. Regulatory requirements, approximate traffic calculations. Escalators and moving walks - use, widths and ratings, regulatory requirements, and construction. Planning and scheduling of lift contracts and ancillary building work. Cost of lifts and their effect on the cost of buildings. Fire protection - sprinklers, detectors, alarms, extinguishers. Telephone and sound systems. Intrusion alarm systems. Clock and time systems. **Prerequisite:** BGB262

Credit Points: 3 Contact Hours: 1.5 per week



BGB301 PML - ADVANCED CONSTRUCTION METHODS

Offered: Spring

The main thrust of the subject will be to broaden the education and experience of students by setting them construction and site management problems which are typically encountered by a project manager. Alternatively or in conjunction with the above, case studies will be carried out by the students on projects which have unusual construction problems or techniques. Problems and case studies will cover areas such as: site planning organisations for small, medium and large projects. Material handling and site equipment selection.

Credit Points: 4 Contact Hours: 2 per week

BGB341 BUILDING & CIVIL ENGINEERING CONSTRUCTION - 2

Offered: Autumn

Civil Engineering techniques commonly used in excavation of large project sites, involving bulk excavation, earth and rock retaining systems, and rock excavation and explosive handling. Discussion on dewatering and techniques of pile driving, bored pier and special foundation construction. Problems faced in the demolition of structures, particularly those associated with prestressed concrete construction. Roadworks - techniques, stabilised construction and surface sealing and associated bridge construction. Particular attention is given to the need for falsework and temporary works and their effect on cost. Credit Points: 4 Contact Hours: 2 per week

BGB342 LAW II - PRINCIPLES & PROPERTY

Offered: Autumn

Introduction to legal principles and process - the legal system and process. Sources and divisions of the law. Rules of precedent. Interpretation of statutes and regulations. Legal practice and procedure. Law of property - ownership and possession. Estates and interests in land, Easements, rights and restrictive covenants. Party walls, boundary walls, fences and encroachments.

Credit Points: 3 Contact Hours: 1.5 per week

BGB343 ECONOMICS OF THE CONSTRUCTION INDUSTRY

Offered: Spring

Branches of economics. Applied economics, Features of the macro economy. Demand, supply, prices and stocks. Market structures, competition, collusion, integration and concentration. Real property markets, tenure, markets and sub markets. Structure of the construction and housing industries, composition and characteristics. Demand for dwellings, the deposit gap, public housing, rental markets. Pricing mechanism, application to land, contract and speculative projects, etc. Cost analysis, cost components in housing, problems of rising costs and effects of time delays, etc. Finance industries, types and use of finance, use of gearing, risk considerations, cash flow, causes of failure of developer and builder firms. Credit Points: 4 Contact Hours: 2 per week

BGB345 HYGIENE & SANITATION

Offered: Spring

Subject description as for BGB164. Contact Hours: 2 per week Credit Points: 4

BGB361 BUILDING SERVICES IIA

Offered: Autumn

Heating venting and air-conditioning. Requirements for human comfort and the principles of refrigeration.

Minimum standards of ventilation. Types of air-conditioning systems and their composition, application, layout, construction and installation.

Component parts - fans, ducts and accessories. Heating fuel types, efficiency, capital and annual costs. Effect of building ordinances on design of systems. Electrical: high and low tension supply and distribution. Large supply installations, substations. Fuse and switch gear. Wiring systems and circuits. Conduits, cables, joint boxes and earth and protection. Maximum demand and voltage drop. Tools and handling equipment. Measurement, control and lighting equipment. Testing and fault locating.

Co-requisite: BGB261

Contact Hours: 4 per week Credit Points: 10

BGB362 PROPERTY MARKETING Offered: Spring

Characteristics of the Australian property market, the nature of the marketing problems. The marketing plan: the mix, implementation of plan and sales forecast; pricing decisions, approach to selling; consideration of sales particulars and auction catalogues. Promotional decisions: determination of budget size; media decision and sales promotion; technological advances and market changes. Real estate brokerage and the application of marketing principles to residential, commercial, industrial and special and overseas properties. Marketing in international markets. Negotiation skills development.

Contact Hours: 3 per week Credit Points: 7

BGB363 VALUATIONS III

BGB364 VALUATIONS IV

Offered: Autumn, Spring

Valuation net of tax, the effect on value of income and corporation taxes. Valuation of freehold and leasehold interests, including surrender and renewal value. The valuation of life interests. Cost of capital concepts. Internal rate of return, depreciation, future capital sums, cost in use. Alternative valuation inodels; equated and equivalent yields approaches to valuing growth investments. Equated rents. The Land Act and the Valuations Land Act. Valuation for statutory rating, insurance and mortgage. Appreciation of accounts. Advanced methods of valuation of residential, commercial and industrial property accounting for current legislation. Valuation of specialised properties: licensed premises, hotels, service stations and entertainment properties.

Prerequisite for BGB363: BGB268 Credit Points: 5 & 7 respectively

Contact Hours: 2 & 3 per week respectively

BGB367 REAL ESTATE ACCOUNTING I

Offered: Autumn

Principal issues in financial accounting - period vs project income determination, inventory valuation and costs of goods sold, introduction of asset valuation theories, depreciation, intangible asset determination, effects of taxation. Analysis and interpretation of financial statements - multiple factors in interpretation, analysis principles for business brokerage. Asset valuation - conventional bases for valuation, current cost, replacement cost, general price level changes, effects in depreciation and taxation. Business structures - sole trader, partnerships, companies and appropriate accounting procedures. Business analysis and assessment of value for business brokerage. Project accounting, contracts, part-payments, interim project determination, development costs. Credit Points: 4

Contact Hours: 2 per week



BGB368 REAL ESTATE ACCOUNTING II Offered: Spring

Budgeting and cost accounting, the production function, decision and control aspects of production, cost accounting, cost flows, cost types, cost classification, costing systems, standard costing and variance analysis, flexible budgets and budgetary control, performance and evaluation. Company finance objectives of the finance function, use of financial indicators, debt equity sources of funds, financial versus capital structure, financial risk and gearing, cost of capital. Cash flow management - decisionmaking using cash flow management techniques viz purchase vs lease etc. Working capital management and short term investment criteria. Capital budgeting for an on-going business. Project sorting and budgeting. Prerequisite: BGB367

Credit Points: 7 Contact Hours: 3 per week

BGB401 BUILDING ECONOMICS & COST PLANNING

Offered: Spring

The concept of cost control - building outputs and costs; comparison of cost planning and approximate estimating. Cost implication of design variables perimeter/floor area ratio; size of building; circulation space; storey height. Effect of site conditions on building costs; cost implication of prefabrication and standardisation. Approximate estimating - types and uses. Measurement of variations; adjustment of prime cost and provisional sums. Cost analyses; indices and data, applications and use of cost analyses; cost data; worked examples covering the preparation and adjustment of cost plans. Progress payments, rise and fall calculations and final accounts. Bill of quantity and bulk checking techniques.

Prerequisites: BGB446, BGB540

Credit Points: 4 Contact Hours: 2 per week

BGB403 BUILDING MANAGEMENT I

Offered: Autumn

Management in principle - planning, leading, organising, controlling and applied communication. Fundamentals of management. Roles of policy maker and executive. Accountability. Communication. Problem solving. Organisation structures and relationships, formal and informal structures, latest trends in organisation. Management in practice building industry participants - client to builder, and their possible relationship and operational sequence. Systems in the building industry. Contract management and head office - small and large contracts. Management job description - contracts, plant, estimating, purchasing, planning and accounting heads. Contract terminology. Types of tenders and contracts. Controlling incoming work - securing contract. Co-requisite: BGB253

Credit Points: 4 Contact Hours: 2 per week

BGB404 BUILDING MANAGEMENT II

Offered: Spring

A study of more advanced management principles and their application to site administration and management. Credit Points: 4 Contact Hours: 2 per week

BGB405 PROJECT EQUIPMENT & SAFETY

Offered: Spring

Study of the Construction Safety Act 1971 - 73 and regulations. This includes fixed, mobile and portable equipment, hoarding, gantries, scaffolding and other miscellaneous gear. Crane, hoist and other relevant

codes. Responsibilities and certification of side operatives. Safety problems in erection, demolition and excavation work. Accident investigation, analysis and preventive techniques. Frequency and severity rates and training, management responsibilities. **Co-requisite:** BGB254

Credit Points: 4 Contact Hours: 2 per week

BGB406 BUILDING FINANCIAL

MANAGEMENT II

Offered: Spring

Search and selection of construction projects. The discount rate - the cost of capital, and return on investment. Cash flows and contract mark-up. Risk, uncertainty and inflation in capital investment decisions. Analysis and interpretation of financial statements. Sources of funds and classifications in the structure of funds. Bidding theory and strategy. Prescribed payments taxation system.

Prerequisites: ACB281, BGB403

Credit Points: 4 Contact Hours: 2 per week

BGB440 LAW III - BUILDING CONTRACTS

Offered: Autumn, Spring

The aim of this subject is to provide students with a greater understanding of the law relating to building and engineering agreements, and of practices relating in the building industry.

It includes contract law - elements, formation and discharge of a contract. Contents of a valid contract misrepresentation, collateral contract implied terms. Contract documents and their interpretation. Remedies for breach of contract. The building contract process: consideration of the major provisions in Australian Standard Forms of Building Contract. Credit Points: 3 Contact Hours: 2 per week

BGB442 VALUATIONS & DILAPIDATIONS

Offered: Autumn, Spring

The nature of value. Effect of supply and demand of land and buildings. Investment value and occupational value. Types of landed property, the incidents of their tenure, the outgoings, and comparison with other forms of investment. Rates of interest required from different types of property. Calculating rental value and net income and capitalization of net income. Use of valuation tables. Liability for dilapidations. Meaning and liability for legal and equitable waste. Implied, express contract covenants and statutory obligations to repair between landlord and tenant. Liability for injuries to third parties.

Credit Points: 3 Contact Hours: 3 per week

BGB443 BUILDING SERVICES III

Offered: Autumn

Transportation of people and goods - passenger, goods and service lifts - planning disposition, control systems and construction. Regulatory requirements, approximate traffic calculations. Escalators and moving walks - use, widths and ratings, regulatory requirements, and construction. Planning and scheduling of lift contracts and ancillary building work. Cost of lifts and their effect on the cost of buildings. Fire protection - sprinklers, detectors, alarms, extinguishers. Telephone and sound systems. Intrusion alarm systems. Clock and time systems. Acoustics.

Co-requisite: BGB253

Credit Points: 5 Contact Hours: 2.5 per week



BGB444 MECHANICAL & ELECTRICAL ESTIMATING

Offered: Autumn

Outline of the various mechanical and electrical systems and the parameters influencing their design and application. Types of estimates and tenders. Breakdown of preliminaries. Trade awards and wage rates. Take off procedures under major sections of works including costing and estimating make-up calculations. System costs in relation to total building, floor area, operating and maintenance cost, builders altowance for each system.

Prerequisites: BGB013, BGB014

Credit Points: 4 Contact Hours: 2 per week

BGB446 ESTIMATING I

Offered: Spring

Building trades award and wages rates. Hourly rate build up for equipment and trade services. Calculation of preliminaries for a small suburban project.

Prerequisites: BGB006, BGB245

Co-requisite: BGB254

Credit Points: 5 Contact Hours: 2.5 per week

BGB451 COMPUTER SOFTWARE APPLICATIONS I

Offered: Autumn

The series of lectures in this subject is to be used to study in depth the preparation of Bills of Quantities using various commercially available computer software packages. The student will be given "handson" experience in the following: set up of base accounts, trades, headings, etc; measurement input; editing, correction and data manipulation; report generation in various Bill of Quantities formats; pricing using estimated and/or tendered rates; elemental analyses; team leader responsibilities; the use of computers in the measurement of non-traditional contractual systems; and specification and preamble development;

Credit Points: 4 Contact Hours: 2 per week

BGB452 COMPUTER SOFTWARE APPLICATIONS II

Offered: Spring

This subject covers the preparation of cost plans/estimates using various computer software packages, and includes set up of base accounts including parameter specifications; elemental and detailed estimate measurement; editing, correction and data manipulation; report generation and formatting; development of labour constants, standard rates and standard items; pricing, tendering, spreadsheet application. It also deals with contract administration software packages, encompassing set up of base accounts; variation control, rise and fall and final accounts; and progress payments and cash flow forecasts.

Credit Points: 4 Contact Hours: 2 per week

BGB461 MEASUREMENT OF CONSTRUCTION V

Offered: Autumn

Detailed study and instruction in the process and methods of taking off and billing quantities in complex basement and foundation work in the trades underpinning, excavator, concretor and all types of piling systems. Study and instruction will also be applied to complex structural systems in suspended slabs and walls.

Prerequisite: BGB010

Credit Points: 3 Contact Hours: 1.5 per week

BGB462 MEASUREMENT OF CONSTRUCTION VI

Offered: Spring

Detailed study and instruction in the process and methods of taking off and billing quantities in the trades plumber and drainer. **Prerequisite:** BGB345

Credit Points: 3 Contact Hours: 1.5 per week

BGB464 VALUATIONS V - RURAL

Offered: Spring

The background to farming in Australia; Government impacts on road and rail development and rural subdivision. Bases of value: rural property values; the valuation process; data collection, collation and analysis; soils. Valuation of crown leaseholds. Property inspections and descriptions. Market data approach: sale price records and analysis and organisation of data; value by comparison. Cost approach: reproduction or replacement cost; unit in place method; comparative unit cost; depreciation. Income approach: application in Australia; income and expense estimates; value by capitalisation.

Prerequisite: BGB363, LPP441 Credit Points: 7 Contact Hours: 3 per week

- BGB465 INVESTMENT DECISIONS & FINANCIAL STRATEGY I
- BGB466 INVESTMENT DECISIONS & FINANCIAL STRATEGY II

Offered: Autumn, Spring

Corporate financial system in Australia: Concepts and techniques of financial evaluation, risk management, financing of investments. Investigation and selection of investment strategies in accordance with pre-determined objectives, investment, market analysis and appraisal of capitalisation rates and rates of retum on property investments. Corporate strategy, investment market and portfolio analysis and management. Principles of national taxation as they affect the above, nature and incidence of personal and corporate taxation on income and capital. Principles of taxation and capital and development gains, including the consideration of chargeable gains, occasions of charge and provisions for deferrment and relief. **Credit Points:** 7 & 8 respectively

Contact Hours: 3 per week (both)

BGB520 SPECIFICATIONS

Offered: Spring

The compilation of specifications complementing other architectural documents. Definitions, objects and purpose of a specification. Specification as a contract legal and working document; relationship to the Bill of Quantities and drawings; schedules; reference material and specification writing. The use of 'Master' specifications; outright and performance specifications and preparation of specified Bills of Quantities.

Prerequisite: BGB254

Credit Points: 3 Contact Hours: 1.5 per week

BGB524 MEASUREMENT OF CONSTRUCTION VII

Offered: Spring

Detailed study and instruction in the process and methods of taking off and billing quantities in the trades of mechanical and electrical engineer, external works and preliminaries. Detailed study and instruction in the process of Bill of Quantity presentation and the prospects for computer usage in Bill of Quantity preparation.

Prerequisites: BGB013, BGB014, BGB443 Credit Points: 4 Contact Hours: 2 per week



BGB526 POST CONTRACT SERVICES I

BGB653 POST CONTRACT SERVICES II Offered: Spring, Autumn

An in-depth study in the method of adjustment of provisional items in the contract; a study of rise and fall entitlements under various formulae, methods of preparing valuation certificates for progress payments, and modem cost control techniques used on jobs during the construction period including review of relevant contractual clauses applicable to all items within semester study. An in-depth study of various aspects of Quantity Surveying practice including adjustment to the contract sum for variations, feasibility studies and different types of contractual arrangement and selection of contractors.

Credit Points: 5 (both) Contact Hours: 2.5 per week (both)

BGB529 PM2 - QUANTITATIVE TECHNIQUES

Offered: Autumn

Review of statistical methods. Data recording and presentation technique. The weighted index. Probability and expected value. Frequency and probability distribution. The normal distribution - control charts. Regression and multiple regression. Work study technique. Value analysis in building design and production. Operation research: linear programming - graphical, simplex, transportation and assignment methods. Dynamic programming. Decision making under conditions of certainty and uncertainty. Decision trees.

Prerequisites: BGB403, BGB404

Credit Points: 5 Contact Hours: 2.5 per week

BGB540 ESTIMATING II

Offered: Autumn

Build up of a typical rate for the following trade items: demolition, dewatering, piling, underpinning, shoring/formwork to columns, beams, walls and slab systems/reinforcement tying and fixing; concrete placing rates; precast erection; scaffolding, gantries, hoists and cranes etc. Calculations of preliminaries for country and city project.

Prerequisites: BGB009, BGB010, BGB246, BGB446

Credit Points: 5 Contact Hours: 2.5 per week

BGB543 LAW 4 - TORTS & ARBITRATION Offered: Spring

An introduction to the law as it affects the construction industry. Law of tort - negligence, professional negligence, duty of care, liability, occupiers liability, nuisance, fraud and conversion. Arbitration - nature of comparison with actions at law. Reference by consent. The arbitration agreement, parties subject matter, appointment of arbitrators or umpire. Conduct of an arbitration; powers and duties of an arbitrator. Rules of evidence. Validity of publication and enforcement of an award. Costs.

Prerequisite: BGB440

Credit Points: 3 Contact Hours: 1.5 per week

BGB547 PM3 - CONSTRUCTION PLANNING TECHNIQUES I

Offered: Autumn

This subject is designed to develop skills in the application of construction planning and control techniques. It includes bar charts. Critical path networks - arrow and precedence diagrams. Updating, control and reporting techniques. Line of balance. Resource levelling. Least-cost optimisation. Multiple activity chart.

Credit Points: 5 Contact Hours: 2.5 per week

BGB548 PM4 - CONSTRUCTION PLANNING TECHNIQUES II

Offered: Spring

The advanced application of quantitative techniques to construction planning and control. Planning and control for various types of projects. Expediting contracts. Misuse and abuse of planning. Flowline scheduling, Legal problems associated with CPM. Simulation techniques.

Prerequisites: BGB547 PM3

Credit Points: 8 Contact Hours: 4 per week

BGB550 PM5 - PROJECT COST CONTROL Offered: Spring

This subject is designed to develop skills in the financial planning and cost control of the construction project. It deals with a variety of topics including the development time relationship, cost consequences of design decision. Preconstruction budget, budget management, materials control. Performance analysis. Trend evaluation. Forecasting techniques. progress reports. Cost reports. Financial status reports. Computer applications in expenditure. Control and forecasting. Equipment policy. Equipment economics. Maintenance management. Contract administration including maintaining records, processing payments, negotiating extensions and prolongation claims, rise and fall, prescribed payments, sundry administration.

Credit Points: 6 Contact Hours: 3 per week

BGB552 OFFICE MANAGEMENT

Offered: Spring

A study of scale of fees and professional charges, code of ethics, letters of engagement, law involving the quantity surveyor and his client, professional indemnity, professional image and status. Office management and procedures.

Credit Points: 2 Contact Hours: 1 per week

BGB561 PROPERTY MAINTENANCE I

BGB562 PROPERTY MAINTENANCE II Offered: Autumn, Spring

Technological, legal and financial factors in property maintenance, including taxation issues. It encompasses the nature and importance of building maintenance - concept of building maintenanee, liability for defects. Capital, maintenance and running costs. Quality control. Government policy. Planning of maintenance including inspections, long and short term. Maintenance policies, cycles and profits, maintenance audits, maintenance manuals. Building stock age and conditions, statistics. Maintenance standards - application, attitude, quality control, responsibility. Statutory requirements - Building Act, defective premises, Factories Act, fire precautions, health and safety. Cost control - estimates and budgets, performance measures. Life cycle costing.

Prerequisite for BGB561: BGB164, BGB361, BGB269

Credit Points: 4 & 5 respectively Contact Hours: 2 & 3 respectively per week

BGB563 VALUATION - ADVANCED I

Offered: Autumn

Capital taxation as it affects property transactions. Valuations for development land tax, capital transfer tax and taxation of capital gains. Consideration of fiscal policy and tax planning as they affect the public and private property sectors. Valuations resulting from compulsory purchase with particular reference to land taken, part taken and where no land is taken.



Residential and business disturbance claims, Compensation resulting from adverse planning decisions. The compensation and betterment problem. Law and valuation. The Land Court, professional liability. **Prerequisites:** BGB363, BGB364

Credit Points: 5 Contact Hours: 2 per week

BGB564 VALUATION - ADVANCED II

Offered: Spring

Valuation in the development sphere, with emphasis on the valuer's role in the development process; the structuring of development schemes in the private and public sectors with specific consideration of partnership schemes. Development potential and the effect of equity sharing schemes, capital budgeting, finance. A study of investment appraisal techniques and their application in the property sector. Portfolio management in the public and private sector, including selection, lease management, property maintenance and performance measurement. The conflict between investment theory and the problems/objectives of operational estate management.

The valuation of corporate assets for organisational and balance sheet purposes. Consideration of the valuer's role and responsibilities. The treatment of depreciation of fixed assets for accounting purposes. Credit Points: 5 Contact Hours: 2 per week

BGB565 TIME MANAGEMENT

Offered: Autumn

Bar chart, critical path networks - arrow and predence diagrams.

Updating, control and reporting techniques. Line of balance, production planning. Resource management. **Prerequisite:** BGB 161

Credit Points: 8 Contact Hours: 3 per week

BGB567 REAL ESTATE PRACTICE I

💹 BGB568 REAL ESTATE PRACTICE II

Offered: Autumn, Spring

These subjects explore in detail real estate practice, conveyancing, real estate law, marketing and office administration.

Credit Points: 4 & 5 respectively

Contact Hours: 2 & 2.5 per week respectively

BGB569 PROJECT COST MANAGEMENT I Offered: Autumn

Principles of project cost planning and control from project inception through design, pre-tender, tender, post contract and final account phases. Principles of measurement and preparation of Bills of Quantities, the pricing of construction work including preliminaries and overheads. An introduction to building economics and cost planning. Comparison of cost planning and approximate estimating. Cost implication of design variables - perimeter/floor area ratio, size of building/circulation space, storey height, column spacing, floor space and loadings. Variations, adjustment of prime cost and provisional sums and final accounts. Progress payments.

Prerequisite: BGB162

Credit Points: 5 Contact Hours: 2 per week

BGB601 FORMWORK DESIGN & CONSTRUCTION

Offered: Autumn

Objectives in formwork building, quality, safety, control. Formwork planning - re-use, materials and hardwarc, cost, hire or buy, erecting and stripping, scheduling. Types of materials, facings, finishes, hardware and fasteners. Loads and pressures on slab, beams, column and wall forms. Form design and design tables. Formwork drawing and detailing. Building and erecting formwork, architectural forms, precast concrete. Special techniques and pre-stressing. Proprietory formwork systems. Falsework will be designed in conjunction with the above but will only involve simple support beam or axially loaded props; more complex support systems will not be dealt with. **Prerequisite:** BGB144 Co-requisite: BGB253 Credit Points: 4 Contact Hours: 2 per week

BGB606 PM8 - LAND DEVELOPMENT STUDIES

Offered: Spring

The structure, operation and control of the land development industry including the politicoeconomic framework, land use plans and approval mechanisms, potentially subdividable land, financial aspects of development projects, and trends and prospects in the house development industry.

Credit Points: 4 Contact Hours: 2 per week BGB623 PM6 - BUILDING DEVELOPMENT TECHNIQUES I

BGB624 PM7 - BUILDING DEVELOPMENT TECHNIQUES II

Offered: Autumn, Spring

Feasibility, market and location surveys. Cost analysis. Evaluation techniques, conventional and discounting. Cash flows and sensitivity analysis, Authorities, development restrictions, services, profitability, commercial assessment, land values, options. Purchase - terms, legal documentation, consolidation, surveys. Commissioning design team building use, facilities, quality, staging. Instruct consultants, analyse alternatives, value engineering, marketability, income and outgoings, commercial assessment from sketch through to working drawings. Cost and time control from sketch design to completion. Tender procedures and negotiations, contract documentation. Leasing, brochures, publicity, letting agents, targets. Authorisation of construction payments, monthly reports, coordination meetings. Financing projects and cash flow. Each Semester

Credit Points: 4 (both) Hours: 2 per week (both)

BGB626 LAND DEVELOPMENT STUDIES Offered: Spring

Subject description as for BGB606.

Prerequisites: BTB663, LPB441, LPB444 Credit Points: 4 Contact Hours: 2 per week

BGB642 APPLIED COMPUTER TECHNIQUES

Offered; Autumn

An evaluation of the range of commercial and noncommercial computer programs designed for the construction industry.

Prerequisites: BGB548 PM4

Credit Points: 6 Contact Hours: 3 per week

BGB643 LAW 5 - COMMERCIAL LAW

Offered: Spring

An introduction to the law as it affects the construction industry. Sale of goods, hire purchase. Negotiable instruments. Insurance law. Partnership law and general principles of company law. Bankruptcy and liquidation.

Credit Points: 3 Contact Hours: 1.5 per week



BGB647 COST PLANNING & COST CONTROL I

BGB648 COST PLANNING & COST CONTROL II

Offered: Autumn, Spring

The significance of construction economics for the client, the professions, the industry and society. Historical development, need for main aims of cost control. Comparing cost planning and approximate estimating. Cost implication of design variables - shape, size, perimeter, storey height, etc. Cost implications of construction methods, of site and market conditions, of prefabrication and industrialisation. Types of approximate estimates. Cost analyses, indices and data. Cost in use, maintenance and running costs, the life of buildings and components, effect of taxation and insurance.

Prerequisites: BGB006, BGB461, BGB462, BGB542, BGB540

Credit Points: 4 & 6 respectively Contact Hours: 2 & 3 respectively

BGB656 BUILDING RESEARCH

Offered: Full year

History of building research. The definition of research. Australian and international building research organizations. The nature of the building industry and implications for research. Financing research. Future developments in building research. Research management. The research process. The development and presentation of a bibliographic report.

Prerequisite: BGB341 Credit Points: 9 Contact Hnurs: 9 per week

BGB661 ELECTIVE RESEARCH PROJECT I

BGB662 ELECTIVE RESEARCH PROJECT II

Offered: Autumn, Spring

The subject is designed to develop an ability to disseminate and evaluate information and specialised knowledge and to acquire an understanding of research methodology. It encompasses the definition, history, financing, future prospects and management of research. Students may either select a research subject, test its workability, develop working procedures, prepare an outline for the study, draft the preliminary section and after a series of critiques, present a bibliographic report, or carry out a case study or project based upon an unusual or complex process within a relevant professional area, prepare a report and give an oral presentation.

Credit Points: 8 (both) Contact Hours: 4 per week (both)

BGB663 PROJECT DEVELOPMENT PROCESS I

BGB664 PROJECT DEVELOPMENT PROCESS II

Offered: Autumn, Spring

An overview of the project development process from inception to occupancy as a prelude to detailed study of discrete parts of the process. Subject description as for BGB623/4.

Credit Points: 5 each semester Cnntact Hours: 2 each semester

BGB665 PROPERTY MANAGEMENT I

BGB666 PROPERTY MANAGEMENT II

Offered: Autumn, Spring

Principles and techniques in property management in the private and public sectors. The management of a property department in an organisation with a large property holding. Management of property portfolio in the private and public sectors. The characteristics and choice of alternative forms of ownership and interests. Financial and tax planning; public policics. The management of residential, retail, industrial and commercial buildings. Main statutory provisions relating to above tenancies. Tenancy agreements, management records and accounts. Insurance. Cash flow and forms of ownership. Property brokerage principles and practices.

Credit Points: 4 & 6 respectively

Contact Hours: 2 & 3 per week respectively

BGB667 APPLIED COMPUTER TECHNIQUES

Offered: Spring

The subject is designed to give students hands-on experience and to demonstrate contemporary commercial software. On completion of the subject, students should be able to evaluate a range of commercial and non-commercial computer programs designed for the property development and construction industry. It covers accounting and cost control packages; feasibility studies, etc.; maintenance packages; and CPM, network analysis techniques.

Credit Points: 6 Contact Hours: 3 per week

BGB668 LAW 6 - VALUATION OF LAND

Offered: Autumn

The aim of this subject is to provide students with a better understanding of the basis upon which valuations of land are made for the levy of rates and taxes and the assessment of compensation for compulsory acquisition. It encompasses review of land, fixtures, plant, improvements, tenure, interests of land. Valuation - market, capital, unimproved, annual and site values. General principles - assessment of value, Valuation nethods - urban and rural lands. Goodwill and business disturbance. Compensation upon compulsory acquisition. Mines and mineral bearing lands, Licensed premises. Valuation of strata title property. Valuer as an expert witness. Valuation appeals procedures.

Co-requisite: BGB563

Credit Points: 4 Contact Hours: 2 per week

BGP412 PROPERTY MAINTENANCE Offered: Autumn

Nature and importance of building maintenance; maintenance standards; statutory requirements; cost control and taxation.

Credit Points: 6 Contact Hours: 2 per week

BGP414 TIME MANAGEMENT II

Offered: Spring

This subject is designed to develop an understanding and a high level of competence in the design of planning and control techniques for all stages of project management. It is expected that students will understand basic planning techniques. The subject covers updating, control and reporting techniques. Using CP networks. Resource, time and cost analysis of CPM and PERT. Production planning and control using line of balance/flowline techniques. A critical examination of CPM and case studies on its misuse and abuse in contracts. Development of basic planning to produce detailed repetitive production planning of project components and elements, including cycle times and balancing. Planning for various



project types and its processes, including systematic analysis of methods, techniques and alternatives. Use of multiple activity charts in planning and monitoring progress, and material handling time analyses in repetitive projects.

Credit Points: 6 Contact Hours: 2 per week

BGP417 DESIGN MANAGEMENT

Offered: Autumn

The aim of this subject is to provide the student with an understanding of the nature of design and a knowledge of all factors which influence the process of design. It includes planning, managing and controlling the design process from inception to detail documentation; decision sequences in design; appreciation of the consequence of design decisions on the total project; the interrelationships between archi ctural design and engineering and services design requirements; briefing techniques; cost control; and building maintenance manuals.

Credit Points: 6 Contact Hours: 2 per week

BGP422 ADVANCED VALUATIONS

Offered: Spring

Introduction to valuation, its purposes, the need for valuation, ethical and legal responsibilities. Land identification and title. Value - theory of value, economic base of value, retail value, principles of real estate. Basie valuation concepts and methods. Valuation of vacant land, improvements, valuation of improved land, subdivisional land. Valuation for rating and taxation. Techniques for valuation of residential, single and multi occupier, urban including commercial, high rise, industrial, goodwill and busis nesses, shopping centres, rural including erops, plant machinery, irrigation, livestock. Acquisition - law and procedures. Compensation and assessment.

Credit Points: 6 Contact Hours: 2 per week

BGP426 PROJECT DEVELOPMENT

Offered: Full year

Site selection/acquisition. Securing the land. Authority negotiation and approvals. Authority approvals. Resource planning. Acquisition/procurement, Project co-ordination. Construction management. Commissioning and occupation. Property management. Project finalisation. Post control evaluations. Project management objectives of cost time and quality. Process overview. Project stages. Management principles. Feasibility/justification. Preliminary brief. Development objective, motivation and needs. Feasibility studies. Project feasibility/ justification. Finance for projects. Marketing.

Credit Points: 6 Contact Hours: 2 per week

BGP429 COST MANAGEMENT & ECONOMICS

Offered: Full year

Financial statements. Investment decisions. Economic evaluation. Financing decisions. Life cycle costing. Control systems. Management accounting and reporting. Information systems. Cost planning theories and techniques. The economy.

Credit Points: 6 Contact Hours: 2 per week

🖾 BGP430 CURRENT ISSUES

Offered: Full year

This subject is to be seen very much as an integrative study area. There are two main strands of integration: the integration, under the project management umbrella, of areas already studied; and the integration of recent and topical developments in the area of project management. Areas may include: quality management, buildability, value analysis, case studies, industrial relations, computer applications and selection, technology, information systems IT and AI, international project management, simulation exercises (Arousal, Bicep), recent developments in law, and englobal land development. It is expected that many of these topics will be covered by guest speakers from industry or presented in the form of seminars. Credit Points: 9 Contact Hours: 3 per week

BGP431 PROJECT MANAGEMENT I Offered: Autumn

This subject is designed to introduce the student to basic theory in the areas of communication, management and organisation as it applies to the project situation. It encompasses communication - process, skills, environment, applications; management theory and organisation theory.

Credit Points: 6 Contact Hours: 2 per week

BGP432 PROJECT MANAGEMENT II Offered: Spring

Negotiation. Project team building. Motivation theory. Construction and project leadership. Change. Strategic management and planning. Personnel. Decision making strategies. Stress management. Credit Points: 6 Contact Hours: 2 per week

BGP433 PROJECT MANAGEMENT LAW

Offered: Full year

Introduction to the legal system. Law of tort. Contract law. Elements of contract. Contents of valid contract. The building contract process. Legal issues and problems associated with project management contracts. Arbitration. Property law. International law. Agency law. Local Government law. Statutory regulations. Industrial relations.

Credit Points: 6 each semester

Contact Hours: 2 per week

BGP434 TIME MANAGEMENT I

Offered: Autumn

The use of planning techniques for project control. The emphasis will be on practical assignments applicable to the proposed situation. Critical path method for planning. Precedence networks. Activity on the arrow. Time scaled networks.Bar charts. Resource loading and levelling. Line of balance. Introduction to computing packages.

Credit Points: 6 Contact Hours: 2 per week

BGP437 FIELD TRIP

Offered: Spring

An experiential field trip of 5 days duration in an adventure style environment. The emphasis will be on team building, working in a stressful environment, communication skills, personal discovery and extension, and building trust and relationships. The activities will be oriented to achieving greater awareness of and competence in the above areas.

Credit Points: 6 Contact Hours: 5 days

BGP438 REAL ESTATE INVESTMENT & ECONOMICS

Offered: Autumn

Financial analysis of real estate investments. Taxation, tax exemption on financing. Capital budgeting. Debt and equity ponding. Measures of value. Capitalisation. Portfolio analysis. Syndication cash flow and appraisal techniques. Application of micro and macro economics to property market. Economic theories related to locational choice. Land economic theory. Economic factors influencing real estate in-



vestment. Business cycles, growth trends, demographic analysis.

Credit Points: 6 Contact Hours: 2 per week

BGP439 PROPERTY MANAGEMENT

Offered: Autumn

Economic and feasibility studies related to various properties. Land valuation and technique. Legal aspects including strata letter and tenancy law. Sources of finance. Taxation. Cash flow and forms of ownership. Management of lease hold rental and home unit property. Marketing aspects. Insurance. Obsolescence, maintenance and replacement. Feedback for future proposals.

Credit Points: 6 Contact Hours: 2 per week

BGP440 RESEARCH METHODOLOGY

Offered: Autumn

This subject is to enable the student to apply recognised research techniques to the production of his/her dissertation. It covers structure of a dissertation and format. Referencing. Hypotheses. Different methods of investigation. Formation of questionnaires, interviews, etc. Sampling, sample size.

Credit Points: 3 Contact Hours: 2 x 7 weeks

BGP441 STATISTICS

Offered: Autumn

Collection and presentation of data. Probability and probability distribution, Normal, t F and chi distributions, statistical estimation and tests of hypotheses based on these. Introduction to non-parameter tests of hypotheses. Regression and correlation.

Credit Points: 6 Contact Hours: 2 per week

BGP442 DISSERTATION

The dissertation may be of a research or investigative nature on any approved area related to project management. Suitable topics will be discussed and arranged with course members each year. Each student will be assigned a supervisor and will be examined by means of a dissertation by that supervisor and another member of staff prior to review by the external examiner.

Credit Points: 19.5 Contact Hours: 2 per week

BTB100 INTRODUCTORY DESIGN I

Offered: Autumn

The greater part of the course will consist of studio work in freehand and mechanical drawing techniques, applied to a variety of subject matter at different environmental scales. Topics covered include: contour, texture and tone; depth perception, optical illusions and the principles of perspective; techniques of perspective drawing; the organisation of the visual field and the gestalt 'laws of pragnanz'; pattern in two and three dimensions; visual interest and attention; visual dynamics; and principles of scale drawing. Credit Points: 18 Contact Hours: 8 per week

BTB101 THE HUMAN ENVIRONMENT I

Offered: Autumn

The aim of this subject is to provide a basic understanding of the dimensions and movement of the human body, and of its perceptual systems, as an essential preliminary to the design of all artcfacts for human use. The course consists of lectures and studio exercises. Lecture topics include: static and dynamic anthropometry; human sensory systems; introduction to ergonomics; applications of anthropometrics and ergonomics to design.

Credit Points : 4 Contact Hours: 2 per week

BTB102 HISTORY OF THE BUILT ENVIRONMENT I

Offered: Autumn

The course reviews the development of man's artificial environment and its relationship to ideas, technology, and the fine arts from the earliest times to the seventeenth century.

Credit Points: 6 Contact Hours: 3 per week

BTB103 ENVIRONMENTAL STUDIES I Offered: Autumn

Man's place in nature. Some concepts of ecology concept of the ecosystem, energy in ecosystems, interactions in the natural environment. Population, resources and pollution - the ecology of populations, man as part of the ecosystem, diversity as an ecological resource, resilience of natural systems, systems of overloading. Structure and function of essential biological systems. Environmental health.

Credit Points: 2 Contact Hours: 1 per week

BTB110 APPLIED MATHEMATICS FOR DESIGNERS I

Offered: Autumn

Applications of plane and solid geometry in design revision of basic geometry; symmetry; construction and packing of solids; spherical geometry and its applications. Applications of trigonometry in design; revision of basic trigonometry; calculation of heights, distances, areas and volumes. Data collection and analysis in design; introduction to statistics; use of computers in data analysis; elements of computer programming.

Credit Points: 6 Contact Hours: 3 per week

BTB132 LIGHT & COLOUR STUDIES Offered: Autumn

This subject extends the study of colour vision, colour harmony and contrast, mixing and the application of colour; examines a range of contemporary theories relating to the use of colour in design; and introduces the study of the qualitative effects of lighting on form and colour in interiors. Lecture topics include the physiological-psychological basis for colour relations and examine the range of techniques used to apply these theories in the design professions.

Credit Points: 8 Contact Hours: 2 per week

BTB135 MAP & AIR PHOTO INTERPRETATION

Offered: Autumn

Types, sources, uses and availability of maps and air photos, map reading, understanding of contours, land form and use of sections; methods and techniques of map production; introduction to photogrammetry and use of stereoscopes; introduction to remote sensing. Material will be covered by lectures, workshops, visits to map and air photo source organisations. Evaluation and assessment will be by assignment and practical workshop(s).

Credit Points: 2 Contact Hours: 1 per week

BTB151 INTRODUCTION TO TECHNOLOGY

Offered: Autumn

This subject aims to provide basic knowledge on applied technologies, and how they relate to industrial products and systems. The subject consists of series of lectures covering in a broad sense: different technological issues and their application in the content of technological evolution; factors related to technological changes; appropriate technologies.

Credit Points: 2 Contact Hours: 1 per week



BTB200 INTRODUCTORY DESIGN II

Offered: Spring

Studio work: simple three dimensional design tasks at a variety of scales, and illustrating tasks associated with the five professions. Workshop and fieldwork will be related to studio exercises. Studies of the professions: a seminar course in which the work and roles of architect, industrial designer, landscape architect, urban and regional planner and interior designer will be explained and discussed by staff and practitioners and related to current work in the studio and to teaching in History of Built Environment II. Prerequisite: BTB100

Credit Points: 16 Contact Hours: 8 per week

BTB201 THE HUMAN ENVIRONMENT II Offered: Spring

This subject encourages the understanding of human behaviour by examination of relevant theories and processes, and skill acquisition and practical application to daily life. It encompasses basic research principles, perception, learning processes, motivation and problem-solving. Communication, characteristics and dynamics of group and interpersonal interactions. Stress and anxiety management. The role of the self-concept and locus of control in transactions with the world in general.

Credit Points: 4 Contact Hours: 2 per week

BTB202 HISTORY OF THE BUILT ENVIRONMENT II

Offered: Spring

A continuation of History of the Built Environment I. History of the following from circa 1600 AD: ideas, art, and three of the following (one of which must be the student's strand discipline) - Town and Country Planning, Landscape Architecture, Architecture, Interior Design, Industrial Design.

Credit Points: 10 Contact Hours: 5 per week

BTB203 ENVIRONMENTAL STUDIES II

Offered: Spring

A continuation of Environmental Studies I, covering the natural environment and its interactions with people, It looks at man's

place in nature. Some concepts of ecology - concept of the ecosystem, energy in ecosystems, interactions in the natural environment. Population, resources and pollution - the ecology of populations, man as part of the ecosystem, diversity as an ecological resource, resilience of natural systems, systems of overloading. Structure and function of essential biological systems. Environmental health.

Credit Points: 2 Contact Hours: 1 per week

BTB204 APPLIED SCIENCE FOR DESIGNERS II

Offered: Spring

In laying the foundations of a scientific understanding of the physical environment and the technology by which it can be adapted to human use, this subject covers chemistry for environmental design; basic chemical properties of commonly occurring materials, natural and artificial; common chemical processes in buildings and artifacts.

Credit Points: 4 Contact Hours: 2 per week

BTB209 APPLIED LAND SCIENCE FOR DESIGNERS

Offered: Spring

This subject is concerned with establishing the foundations of a scientific understanding of the earth's surface. It includes earth science and climatology for environmental design; land forms and their origins; introduction to the physical properties and behaviour of soils and rocks in relation to the design professions. Credit Points: 2 Contact Hours: 1 per week

BTB210 APPLIED MATHEMATICS FOR DESIGNERS II

Offered: Spring

Applications of plane and solid geometry in design: revision of basic geometry; symmetry; construction and packing of solids; spherical geometry and its applications. Applications of trigonometry in design: revision of basic trigonometry; calculation of heights, distances, areas and volumes. Data collection and analysis in design; introduction to statistics; use of computers in data analysis; clements of computer programming.

Credit Points: 6 Contact Hours: 3 per week

BTB220 ERGONOMICS I

Offered: Spring

To develop a scientific and research approach to problem solving and implementation of principles during the design education, this subject studies different aspects of human factors with an emphasis on their application to human-equipment interface.

Credit Points: 2 Contact Hours: 1 per week

BTB235 INTRODUCTION TO INTERIOR TECHNOLOGY

Offered: Spring

The subject has two purposes: to introduce the student to the elements of construction systems and construction materials and how these elements relate to form and structure; and to develop skills in measuring, surveying and recording information in existing spaces in buildings. Lectures deal with basic structural systems and building carcase. Construction materials and finish materials are differentiated. Instruction in techniques of measuring and recording existing structures including the use of tapes, levels, photography, photogrammetry and the recording, storage and use of surveyed information.

Credit Points: 8 Contact Hours: 3 per week

BTB300 DESIGN I

Offered: Autumn

Lecture topics include: Scope of problem solving theory; Reitman's State Transformation Model; special characteristics of design problems; the task environment, the problem space, the solution space and their representation; problem difficulty, recognition and algorithmic methods; generate-and-test methods; heuristics; creativity and innovation; and general psychological theories of creativity. The theoretical base also encompass theories of and development in art, design and perception. The studio exercises, to which most of the in time is devoted, are aimed at a range of problems within specific boundaries to focus on the systematic processes of design rather than on questioning the environmental implications of these processes.

Prerequisite: BTB200

Credit Points: 18 Contact Hours: 7 per week

BTB301 THE HUMAN ENVIRONMENT III Offered: Autumn

The role of social, cultural, and historical variables in human - environment interactions. The social and cultural development of Australian urban environments, with particular reference to the local built environment. The study of human functioning in



urban environments. Theory: privacy, personal space, territoriality, environmental meaning and cognition, cognitive maps and wayfinding, intercultural and intracultural differences. Application via examination and analysis of an urban environment with respect to its sociocultural function.

Credit Points: 6 Contact Hours: 3 per week

BTB303 ENVIRONMENTAL STUDIES III -EVALUATION

Offered: Autumn

The characteristics and elements of spaces - form, size, scale, contextual relationships, furnishings, fittings, and uses; the needs of living vegetation in external and internal urban spaces - light, air, soil, water, support, management problems; techniques of evaluation of spaces relevant to the various disciplines - Architecture, Urban and Regional Planning (similarities and differences in techniques, approaches, and terminology will be highlighted); graphic-based assignment with class discussion on specific requirements.

Credit Points: 2 Contact Hours: 1 per week

BTB306 VISUAL COMMUNICATION I

Offered: Autumn

A practice-based program will be followed with specialised, formal lecture inputs related to the development of methodologies. The program will concentrate on the achievement of a professional standard in basic techniques of production documentation whilst allowing further individual development in the more 'legitimate' aspects of artistic expression, **Credit Points: 4 Contact Hours: 2** per week

BTB307 DESIGN SCIENCE I

Offered: Autumn

A study of the principles of science and their implications on the design of buildings and spaces. The application of these principles in the conceptual stages of design allowed by laboratory tests and computer evaluations of design proposals. The principles governing quantity and quality of light and daylight in buildings. Manual and computerised calculation of daylight factors. Testing of model interiors in artificial sky. Solar variation, solar loads, solar paths and solar charts. Design for sublight and shade. Manual and computerised projection of solar shadows and reflections. Testing of models on heliodon.

Credit Points: 2 Contact Hours: 1 per week

BTB310 BUILDING CONSTRUCTION I

Offered: Autumn

Lecture topics will include: introduction to common building materials, their properties and behaviour in use; the building as a system; technical innovation and its influence and design and performance; the influence of occupancy, environmental factors, materials and erection procedures in the choice of a construction method; elements of the small building and their function in the building system; historical and contemporary methods of construct small timber framed and masonry buildings. Studio work will consist of exercises in construction drawing related to the lecture topics. Lectures and studio work will be complemented by site visits and workshop practice. Credit Points: 14 Contact Hours: 6 per weck

BTB315 MANUFACTURING TECHNOLOGY I

Offered: Autumn

The course will consist of lectures and studio work. Lecture topics will include: metals, glass, ceramic, wood technologies in relation to product construction. The relationship between the properties of materials and the industrial processes available for their fabrication. Applications of the study of materials, processes and their fabrication to product design including product development, systems and specifications for manufacture will be the subject of studio exercises. **Prerequisite:** BTB220

Credit Points: 12 Contact Hours: 6 per week

BTB320 ERGONOMICS II

Offered: Autumn

The aim of this subject is to develop a scientific and research approach to problem solving and implementation of principles during the design process. This subject studies different aspects of human factors with an emphasis on their application to human-equipment-interface. The course will consist of lectures, and laboratory exercises. Lectured topics will include systems and people; person-machine-system models; human capabilities; hearing and signal detection theory; vision.

Prerequisite: BTB220

Credit Points: 4 Contact Hours: 2 per week

BTB331 FURNITURE & FITTINGS 1

Offered: Autumn

The course will consist of lectures and field studies. Topics will include: introduction to fabrics and textiles in interior design; wall to wall carpeting, materials, properties and fixing methods; curtains and blinds, materials, properties, methods of installation and control; upholstering, materials, properties and techniques; the role of fabrics and textiles in interior design. **Credit Points: 4 Contact Hours: 2** per week

BTB340 SITE MEASUREMENT

Offered: Autumn

Introduction to basic equipment for site measurement - levels, staffs, chains and tapes, prismatic compass, optical prism, clinometer, range poles and their use in horizontal and vertical measurement. Introduction to recording of field data and the preparation of measured site drawings from recorded data. Theory and technique will be introduced in lectures and applied in the field with a site measurement exercise. Evaluation and assessment will be based on the field work. Credit Points: 4 Contact Hours: 1 per week

BTB341 SITE PLANNING THEORY

Offered: Autumn

Exploration of open space theory at regional and local scales; definition of spatial characteristics by edges, nodes, landmarks, districts and paths. Sense of place; structure and form; legibility; imageability; etc; human responses and expectations and their effects on site planning decisions. The subject is taught through lectures, seminar, and application in Design I. Evaluation and assessment will be by assignment and contribution to project work in Design I.

Credit Points: 6 Contact Hours: 2 per week

BTB343 INTRODUCTION TO THE PROFESSIONS

Offered: Autumn

The concept of professionalism and contemporary social expectations of the environmental design professions. Current issues and controversies in environmental design and planning in Australia including resource conservation and degradation, and coastal, city centre and inner city development. Roles and ranges of employment within the two professions. Organisation and activities of the professional institutes. The powers, responsibilities and day to day



activities of landscape architects and urban and regional planners in different forms of private and public employment. The future directions, potentials and job opportunities of the two professions.

Credit Points: 3 Contact Hours: 1 per week

BTB344 ORAL PRESENTATION

Offered: Autumn

Formal oral presentation techniques including meetings, conferences, interviews and speeches (informative and persuasive). Evaluation and assessment is by verbal report and presentation.

Credit Points: 3 Contact Hours: 1 per week

BTB400 DESIGN II

Offered: Spring

This subject aims to develop the design process in order to facilitate the capacity for application of available technologics and philosophies, consistent with encouragement of individual freedom in the forging of intrinsic and innovatory approaches in seeking design solutions; to develop a rigorous and systematic methodology in the sciences and arts that constitute the design process; to concentrate attention on problems within specific parameters so that students are exposed to and involved in design rather than the broader area of problem solving; and to instil an appreciation of design as a capability of human beings. **Prercquisite:** BTB300

Credit Points: 20 Contact Hours: 6 per week

BTB401 THE HUMAN ENVIRONMENT IV

Offered: Spring

Organisation of society; bureaucracy; other approaches to organisation and their structure; directing society; the roles of government and private enterprise; theories of power in society; Federal governments; the Australian example; three tiers of government; Australian constitution; Parliamentary democracy and procedures in State and Federal governments; Queensland State administration; role of local government, especially in Queensland; quangos and statutory authorities; pressure groups and lobby groups and their influence in the Built Environment arena; examples of interactions between government and built environment professions. Credit Points: 4 Contact Hours: 2 per week

- Contact Hours. 2 per week

■ BTB403 ENVIRONMENTAL STUDIES IV -ENVIRONMENTAL IMPACTS

Offered: Spring

The impacts of particular types and processes of development; environmental impacts related to land uses, land and building development, production and use of consumer products, construction materials and processes; environmental criteria for future land and product development.

Credit Points: 2 Contact Hours: 1 per week

BTB406 VISUAL COMMUNICATION II

Offered: Spring

To concentrate on graphic applications in the specific professional areas represented by the School and to allow exploration of areas of particular individual interest and ability, emphasis is placed on development and application of skills and techniques previously covered and computer graphic techniques relevant to professional applications.

Credit Points: 4 Contact Hours: 2 per week

BTB407 DESIGN SCIENCE II

Offered: Spring

Continuation of the aims and principles as described in Design Science I. Basic design for hot humid climates. Principles governing air flow through and around buildings and spaces. Natural ventilation. Introduction to airflow in cities. Testing of airflow through and around models. Basic design for hot arid climates and for cold climates. Macro and micro climatic conditions and their evaluation for design. Manual and computerised climatic evaluation. **Prerequisite:** BTB307

Credit Points: 2 Contact Hours: 1 per week

BTB410 BUILDING CONSTRUCTION II Offered: Spring

The course will be conducted by the case study method, with lectures and studio work. Case studies will be selected to develop understanding of construction in breadth and depth. Each case study will be introduced by lectures explaining the system characteristics of the problem, the human and environmental factors which constrain the solution, and the technical systems which have been developed to deal with problems of this type. Students will then develop their own solution for a particular case in the studio. Lectures and studio work will be complemented by field studies and workshop practice. Prerequisite: BTB310

Credit Points: 10 Contact Hours: 5 per week

BTB414 POPULATION & URBAN STUDIES Offered: Spring

Within this subject students are introduced to urbanisation and its definition. Aspects of urban structure including size/function relationships, concentric zone theory, Hoyt's Settlement patterns and problems of rural settlements are discussed. The dynamics or urban areas: the relationships and requirements of urban activities (especially residential, work, and leisure activities); theories of city form and change; the problems of the CBD; the CBD fringe, and the urban/rural fringe. Case studies of Australian settlements.

Credit Points: 6 Contact Hours: 3 per week

BTB415 MANUFACTURING TECHNOLOGY II

Offered: Spring

The course will consist of lectures and studio work. Lecture topics will include application of principles of engineering mechanisms to products/systems in current technology. Analysis of the performance of mechanical, electrical, hydraulic and pneumatic mechanisms in relation to product evaluation and performance criteria. Application of engineering mechanisms and product performance check lists to design problems will be the subject of studio exercises. Credit Points: 12 Contact Hours: 6 per week

BTB420 ERGONOMICS III

Offered: Spring

Different aspects of human factors with an emphasis on their application to human-equipment-interface. The course will consist of lectures, and laboratory exercises. Lecture topics will include: psychomotor skills, human information processing. Human machine interfaces, displays, controls and tools, human machine system properties, feedback, and controls, wordspace design, noise, stress, vibration, legal aspect, safety and product liability.

Credit Points: 2 Contact Hours: 1 per week

BTB431 FURNITURE & FITTINGS II Offered: Spring

The manufacture, assembly and fabrication of furniture, fittings and components. Lectures include the



expected performance of materials and furniture items, and will focus on functional, maintenance, life span, economic properties.

Credit Points: 4 Contact Hours: 2 per week

BTB435 INTERIOR TECHNOLOGY II

Offered: Spring

The subject will comprise lectures, tutorials and studio work complemented by site visits. The subject will deal with industrialised interior finishes, and construction of joinery and fittings and their interaction with the building shell and services. The notions of interior maintenance, life span economics will be introduced.

Credit Points: 8 Contact Hours: 4 per week

BTB440 INTRODUCTION TO ECONOMICS

Offered: Spring

An introduction to the basic economic problem of scarcity. Production possibilities are outlined together with various types of economic regimes. A simple macro-economic circular flow model is introduced. The household and trading sectors are outlined together with the role of government. Business cycles, inflation, unemployment, saving and investment are introduced and discussed. The second part of the subject deals with micro-economic concepts. The market system and associated concepts of demand, supply and price equilibrium are developed.

Credit Points: 2 Contact Hours: 1 per week

BTB441 SITE PLANNING TECHNIQUES

Offered: Spring

Introduction to the processes of site planning and detailed site design that lead to defendable and accountable solutions; role and objectives of survey and analysis phases; types of information required and the methods of processing the resultant data; data analysis, its scope and documentation; the use of data analysis to generate and evaluate possible problem solutions in conceptual form as a basis for strategic and master planning and the value of these processes as long term mechanism for adaptation of master planning to meet changing needs.

Credit Points: 2 Contact Hours: 1 per week

BTB442 QUANTITIES & COSTS

Offered: Spring

Measurement and costing of time, resources, and materials for professional services, production of documents, and implementation of projects. The techniques and tools available for both preliminary and detailed measurement and costing and their control. Credit Points: 2 Contact Hours: 1 per week

BTB444 APPLIED NATURAL SCIENCES Offered: Spring

This subject looks at continued or altered land use that is safe and healthy as human habitat and able to resist deteriorating agencies by remaining in tune with natural processes. Applied studies in geology and geomorphology, climate and micro-climate, soils and hydrology, and broad soil and plan community associations. The influences of these systems collectively and separately on environmental design decisions. Lectures and field work are integrated with design studios and technology studies. Evaluation and assessment are by assignment and application in related study areas.

Credit Points: 4 Contact Hou

Contact Hours: 2 per week

BTB451 ARCHITECTURAL INTERIOR SYSTEMS I

Offered: Spring

Lighting and acoustic considerations, human sensory and behavioural needs. An outline of systems and guidelines for selection and professional judgement. Credit Points: 4 Contact Hours: 28 per week

BTB500 DESIGN III

Offered: Autumn

As the growth of design abilities is largely dependent upon practice and experience, the program will continue to maintain the major time allocation to studio and workshop exercises. Studies in theory will form an integral part but will be cross-referenced with other subject areas that give emphasis to the methodologics inherent in the roles of the professions represented by the School. The study program will allow for the exploration of optional design topics by students. **Prerequisite:** BTB400

Credit Points: 20 Contact Hours: 6 per week

BTB506 VISUAL COMMUNICATION III Offered: Autumn

This subject concentrates on processes and techniques employed in the production of three dimensional aids to design and presentation. The course will consist of a series of studio exercises in the production of rough mock-ups as an aid to the design process; scale modelmaking and choice of materials.

Credit Points: 4 Contact Hours: 2 per week

BTB510 BUILDING CONSTRUCTION III Offered: Autumn

The course will be conducted by the case study method, and predominantly by studio work. Case studies will be selected to develop a thorough understanding of the construction of non-domestic buildings of intermediate size. Each case study will be introduced by lectures explaining the system characteristics of the building type, the human and environmental factors which constrain the solution, and the building type. Students will then develop their own set of solutions for a particular case. Studio work will be complemented by field work.

Prerequisite: BTB410

Credit Points: 17 Contact Hours: 6 per week

BTB511 LANDSCAPE CONSTRUCTION

Offered: Autumn

This subject aims to introduce students to materials and methods commonly used in landscape construction; and to develop skills in construction detailing and preparation of construction documents. Topics covered include the common building materials; an understanding of foundation soils; basic services of site stormwater drainage, water and electrical services; applied systems including paving, steps and ramps; and construction for planting and small water features.

Credit Points: 6 Contact Hours: 3 per week

BTB517 BUILDING SERVICES I

Offered: Autumn

Supply, connection and reticulation of electricity, gas, water and telephone services and relevant outlets and appliances. Sewerage, sullage and stormwater drainage as applicable to domestic buildings. Domestic waste disposal.

Credit Points: 4 Contact Hours: 2 per week



BTB527 DESIGN SCIENCE III

Offered: Autumn

Continuation of the aims and principles described in Design Science I. Thermal performance of buildings. Energy conservation and low energy design. Calculation of heat flow and indoor temperatures under steady state and fluctuating conditions. Quantitative monitoring of thermal performance of building elements. Principles governing control of noise and good hearing conditions in buildings. Basic acoustic design of auditoria. Calculation of reverberation and noise reduction.

Prerequisite: BTB407

Credit Points: 3 Contact Hours: 1 per week

BTB531 FURNITURE & FITTINGS III

Offered: Autumn

The aesthetic and practical possibilities of the decorative crafts for interior design. The course will consist of lectures, field studies, and studio and workshop exercises. Lecture topics will include: general principles of ornamental design; decorative metalwork; stained glass; decorative ceramics; plasterwork; carved and inlaid woodwork; lacquer work; printed fabrics and papers; tapestry and embroidery.

Credit points : 4 Contact Hours: 2 per week

BTB535 INTERIOR TECHNOLOGY III

Offered: Autumn

This subject continues Interior Technology I, with an emphasis on commercial construction systems and the impact of regulations. High rise buildings are examined, the planning of tennacles, partitioning, and furniture systems. Special considerations for shopping centres, theatres, medical clinics, taverns and restaurants are highlighted.

Credit Points: 16 Contact Hours: 6 per week

BTB543 ENVIRONMENTAL STUDIES V -IMPACT ANALYSIS

Offered: Autumn

The technical, administrative, and legal aspects of environmental analysis. Need for environmental analysis. Aids to analysis - vegetation mapping, pollution and use indicators. Techniques of analysis, projections and predictions. Social and economic aspects of environmental impact analyses. Administrative and legislative bases of environmental and economic impact assessment. Roles of various disciplines in environmental impact analyses.

Credit Points: 2 Contact Hours: 1 per week

BTB546 LAND DEVELOPMENT I

Offered: Autumn

This subject is designed to illuminate the political, economic, and physical contexts of land development, and establish an understanding of the land development process; to study environmental services and utilities at the broad scale and their effects on land development; to examine the necessary design criteria for these services; and to explore contemporary techniques, future trends, and alternatives systems. It looks at a range of topics including characteristics of land development projects; structure and operation of approval authorities; design considerations; impacts of electricity and gas systems on the natural environment; and transport systems planning. Credit Points: 6 Contact Hours: 3 per week

BTB547 LAND USE GENERATION Offered: Autumn

The evolution of western cities - medieval market towns, industrial conurbations, the modern metropolis. Order and diversity in the organisation of modern land uses. Values, activities and land uses. Characteristics of major human activities - shelter, work, movement, learning, recreation, exchange. Changing influences on contemporary settlements and emergent settlement forms.

Credit Points: 4 Contact Hours: 2 per week

BTB551 ARCHITECTURAL INTERIOR SYSTEMS II

Offered: Autumn

An overview of the environmental systems used in buildings: air-conditioning and system performance, thermal and atmosphere control; the building as a comprehensive environmental system; and their impact on individual interior spaces.

Credit Points: 4 Contact Hours: 2 per week

BTB552 ECONOMICS OF INDUSTRIAL PRODUCTION

Offered: Autumn

This subject consists of series of lectures and seminars and covers the following aspects: business, costing, production, marketing, strategic planning and capital budgeting.

Credit Points: 4 Cnntact Hours: 2 per week

BTB556 MARKETING

Offered: Autumn

The aim of this subject is to develop an understanding of marketing concepts and their relation to industrial design; and to provide knowledge on methodologies of forecasting and their relation to industrial design. A series of lectures and seminars covers: marketing concept, market segmentation, marketing test, methodologies of forecasting, planning and organisation, costing of products, etc.

Credit Points: 4 Contact Hours: 2 per week

BTB558 MANUFACTURING TECHNOLOGY III

Offered: Autumn

The course will consist of lectures, studio work and field studies. Lecture topics will include: production techniques in relation to different materials, various methods for different finishing operations, various methods for forming, automatic and semi-automatic assembly and quality control methods. Field studies will consist of site visits to selected manufacturing industries. The application of the appropriate production technique should be developed through the design project.

Credit Points: 12 Contact Hours: 5 per week

BTB561 ECONOMICS OF TOWN PLANNING

Offered: Autumn

This subject is essentially micro-economic although the global and national macro-economic forces as they affect firms will be outlined. It introduces urban economics and the economic aspects of town planning issues; provides techniques for economic analysis suited to planning needs; and illustrates interactions with employment, industry, population and urban studies at the economic interface.

Credit Points: 5 Contact Hours: 2 per week

BTB562 REPORT PREPARATION

Offered: Autumn

Formal writing techniques, including reports, instructions, proposals, specifications, correspondence and essays. Report writing. Structure and content of reports. Summaries and subdivision of material. Precis, Use of tables, charts, and illustrations, in writ-



ten presentation. Clarity and the selection and management of relevant data. Evaluation and assessment is by written report.

Credit Points: 2 Contact Hours: 1 per week

BTB563 TRANSPORT PLANNING

Offered: Autumn

The objective of this subject is to introduce students to alternative modes of transport; to methods for predicting future urban transport patterns; and to techniques of transport planning and management. It covers movement and its alternative modes - foot, cycle, car, bus, train, plane, pipeline, inland waterway and marine modes. The origin and destination approach to traffic management; interchange studies. Inter-urban traffic and regional transport planning. The relationship between land use and traffic generation. **Credit Points: 5 Contact Hours:** 2 per week

BTB565 LANDSCAPE GRAPHICS

Offered: Autumn

Combined application of freehand, drafting and colour techniques. The selection of colour, theme and emphasis in graphic packages. Realism, abstraction and symbolism in landscape communication. Monochromatic graphics for simple reproduction. Integration of various graphic techniques and media. Efficient processes for production and reproduction. Lectures and studio work. Evaluation will be based on evidence of skills and understanding through studio exercises and folio/workbook.

Credit Points: 4 Contact Hours: 2 per week

BTB571 PLANT RECOGNITION & REQUIREMENTS

Offered: Autumn

Field recognition by visual characteristics of size, form, texture and colour and by use of simple keys. Requirements of plants for growth in differing environments and the selection of species most suited to particular sets of environmental conditions. Basic botanical terms, plant nomenclature, collection and preservation of plant material, plant physiology and concepts of plant association will be introduced. Teaching consists of lectures, field work, workshops and the use of slides and films etc. Evaluation and assessment is by submission of annotated plant sketches and tests of both identification skills and basic terminology.

Credit points : 4 Contact Hours: 2 per week

BTB600 DESIGN IV

Offered: Spring

The major time allocation will again be given to studio and workshop exercises. Studies in theory again form an integral part of design and will be cross-referenced to other subjects such as Dynamics II, Environmental Studies VI, Building Construction II, Industrial Construction II, Building Services III, Ecological Principles II, Land Development II, Interior Construction III, Visual Communication IV and External Services II. All students will pursue the same program providing specific inputs but with a limited range of specialisation through research studies and field exercises associated with the studio projects.

Prcrequisite: BTB500

Credit Points: 20 Contact Hours: 6 per week

BTB609 LAW OF THE BUILT ENVIRONMENT

Offered: Spring

The law as a constraint in the design and construction process. Laws, regulations and their interpretation. A review of the Australian and Queensland acts, local authority by-laws and regulations of statutory authorities as they affect the built environment. Legal aspects of land and land transfer. Introduction to professional liability, design registration, patents and copyrights.

Credit Points: 4 Contact Hours: 2 per week

BTB610 BUILDING CONSTRUCTION IV Offered: Spring

Continuing from Building Construction III. The course will be conducted by the case study method, and predominantly by studio work. Case studies will be selected to develop a thorough understanding of the construction of non-domestic buildings of intermediate size. Each case study will be introduced by lectures explaining the system characteristics of the building type, the human and environmental factors which constrain the solution, and the building systems which have been developed for the building type. Students will then develop their own set of solutions for a particular case. Studio work will be complemented by field work.

Prerequísite: BTB510

Credit Points: 14 Contact Hours: 6 per week

BTB617 BUILDING SERVICES II

Offered: Spring

Mechanical, electrical and hydraulic services and their integration in the design and construction of major buildings. Hydraulics: water supply, plumbing, drainage; fire services: sprinklers, alarms, extinguishers, emergency systems; electricity: supply, substations, switchboards, metering, reticulation; vertical transportation: lifts, escalators, hoists. **Prerequisite:** BTB527

Credit Points: 4 Contact Hours: 2 per week

BTB627 DESIGN SCIENCE IV

Offered: Spring

Continuation of the aims and principles of Science III. Module G - continuation of module E (thermal performance of buildings). Module H - artificial lighting of interiors, lamp characteristics, colour rendering, modelling, lighting quality, simplified lighting design methods, and external lighting.

Prerequisite: BTB527

Credit Points: 2 Contact Hours: 1 per week

BTB631 FURNITURE & FITTINGS IV

Offered: Spring

This subject encompasses the development of a methodical approach to the choice of loose furniture, furniture systems and interior products; introduces both quantitative and qualitative assessment approaches; and extends the understanding of design of furniture and its integration into interiors.

Credit Points: 4 Contact Hours: 2 per week

BTB635 INTERIOR TECHNOLOGY IV

Offered: Spring

The subject will consist of lectures, tutorials and studio work. Lectures will concentrate on the technological assessment of interiors, structure, openings, environmental systems, artifacts and ambience of existing spaces with a view to utilising/changing what an existing space has to 'offer'. Tendering, consultants, leasing and tenancy-building interface will be examined.

Credit Points: 16 Contact Hours: 6 per week

BTB640 PLANTING DESIGN

Offered: Spring

Design characteristics and criteria. The use of plants as structural and design elements within landscape



principles to planting design. Scale. Design for change, growth, replacement and maintenance. Planting design in typical schemes such as streets, highways, parks, urban forecourts and interior plantscapes, gardens and broadscale regeneration and stabilisation. Lectures, tutorials and a field visit will be held. Evaluation and assessment will be undertaken through a selected analytical exercise.

Credit Points: 3 Contact Hours: 1 per week

BTB643 ENVIRONMENTAL STUDIES VI -ISSUES & ETHICS

Offered: Spring

Case studies of successful solutions to environmental problems (e.g. Oregon, London, South Australia). Implications of major environmental problems and environmental awareness for urban form and policies. Environmental impacts of technological change. Contrasting attitudes towards conservation of natural, rural and urban environments. Concept of stewardship.

Contact Hours: 6 per week Credit Points: 2

法 **BTB644 APPLIED ENVIRONMENTAL** SCIENCE

Offered: Spring

The basic principles of ecosystems are introduced and the concepts of plant community - environmental associations are strengthened. Methods and techniques of vegetation mapping and classification are introduced including use of air photo and remote sensing skills introduced previously. Environmental needs of plants in diverse built environments and nursery production of these plants are explored. Lectures include ones by specialist guests and field work is conducted. Evaluation and assessment will be by written assignment and field notes.

Contact Hours: 1 per week Credit Points: 6

📓 BTB645 GRADING

Offered: Spring

Techniques of land surface manipulation including the construction of platforms for building, carparks, sports ovals and other features and the associated provision of surface drainage. Lectures are accompanied by skill development exercises in a Grading Workbook concluding with the preparation of two set grading plans. Evaluation and assessment is based on the studio exercises and the grading plans.

Contact Hours: 3 per week Credit Points: 6

📓 BTB646 LAND DEVELOPMENT II

Offered: Spring

The problems associated with implementation of land development proposals and the means of achieving land development designs. Land development projects - financial aspects (private and community viewpoints), marketing aspects, the housing industries, problems confronting firms and the industry, trends. Spot developments - approval processes, development networks, financing and marketing aspects. A field trip is usually undertaken as part of this unit.

Credit Points: 4 Contact Hours: 2 per week

BTB647 LAND USE POLICIES

Offered: Spring

Review of the Government structure as applied to urban areas and regions. The levels of urban planning. How urban policies are made, and analysis of their effectiveness and implementation. Organisations as policy makers, and policy implementors. Areas of conflict and their resolution. Roles of various agencies involved; the various levels and types of land use

planning, their powers, and their limits and practice. Major land uses and activities: work, housing, recreation, transport and welfare.

Credit Points: 4 Contact Hours: 2 per week

BTB648 PUBLIC SERVICES

Offered: Spring

The provision, organisation, and administration of community services other than public utility services. The subject covers definitions and concepts, historical perspectives, and measurement of community needs in relation to social infrastructural systems and services; health and welfare, education, law/order and safety, open space and recreation, cultural, administration, and communication. Planning objectives for service provisions and maintenance, siting requirements, design considerations, environmental considerations, recent trends and developments.

Credit Points: 4 Contact Hours: 2 per week

BTB649 CONSERVATION THEORY

Offered: Spring

Introduction to the concepts of conservation and preservation. Outline of the development and current status of the conservation movement. The structure of conservation legislation and responsibility in Australia. ICOMOS and the "Burra" charter. The particular requirements of places, landscapes and precincts in mixed or public ownership. Application of conservation concepts and their use in the National Listings process. Local and regional case studies. Credit Points: 3 Contact Hours: 1 per wee

Contact Hours: 1 per week

BTB653 VISUAL COMMUNICATION IV

Offered: Spring

Visual communication techniques employed in the production of design presentations to clients. The subject consists of a series of studio exercises and mock-up presentations in a 'forum' environment to aid the design process.

Credit Points: 4 Contact Hours: 2 per week

BTB654 URBAN & REGIONAL PLANNING ELECTIVES

Offered: Spring

Any approved subject selected from the undergraduate programs of the Faculty of the Built Environment, normally one of the Landscape Architecture courses. In special circumstances the elective may be selected from courses offered in other faculties of QUT or other approved university or college.

Credit Points: 4 Contact Hours: 2 per week

BTB655 CAD FOR INDUSTRIAL DESIGNERS

Offered: Spring

2D CAD used for the development of design concepts through to technical drawings. Evaluations of projects and their evolution through studies undertaken with three dimensional CAD, both wire frame and shaded. Credit Points: 6 Contact Hours: 2 per week

BTB656 HOUSING & COMMUNITY SERVICES

Offered: Spring

Population change and households formation on techniques of analysis and projection of housing stock. Housing conditions and preference surveys: housing issues and policies. The economics of the building and land development industries. The physical place of educational institutions in communities -schools, colleges, universities. Shared use of facilities. Location



and space standards. Social and welfare services and their role in the community. Planning and management aspects of welfare.

Credit Points: 4 Contact Hours: 2 per week BTB658 MANUFACTURING TECHNOLOGY IV

Offered: Spring

This course is designed to develop an understanding of advanced manufacturing processes and materials; and to provide knowledge of advanced manufacturing production techniques and how they relate to product design solutions. Lecture topics will include: organisation, planning and technologies required for CIM (computer-integrated manufacturing). The impact of CIM to product design solutions; advanced materials and their applications. Field studies will complement the lecture series. The application of CIM should be developed through the design project. Credit Points: 14 Contact Hours: 5 per week

BTB663 URBAN PLANNING I

Offered: Autumn

Building upon preliminary economic knowledge, urban growth theory and constraints are outlined. Population and employment changes and their effect on employment, industry and residential location are identified together with relevant definition and analytical techniques. Introduction to economic base studies, activity rates and use of multipliers. The urban labour market, unemployment and labour supply are outlined. Theory and methods of industry location are developed: types and needs of industry, retailing, retail hierarchies; office activities, office location; shopping centres; and office, industrial and corporate parks. The role of government and the impact of the post-industrial society are considered.

Credit Points: 4 Contact Hours: 2 per week

BTN101 URBAN DESIGN ANALYSIS STUDIO

Offered: Autumn

The emphasis within this subject is on the development of skills in analysis related to the urban design process and adequate communication of the results. Each student will be required to undertake two studies, one chosen from each of two groups typically: city interpretation or townscape appraisal, and housing morphology or pedestrian environments. Where applicable, work in other units of study will be incorporated into this subject. Field work will be incorporated as necessary.

Credit Points: 9 Contact Hours: 3 per week

BTN102 URBAN DESIGN CONTEXT STUDIO

Offered: Spring

Aim: to develop design skills required for relating new development to existing urban contexts. Each student will be required to undertake two studies, one from each of two groups typically: a community participation project or a sense of place project and a conservation and infill project for the redevelopment/rehabilitation of either an urban precinct or a residential area. Where applicable, work in other units of study will be related to this subject.

Credit Points: 9 Contact Hours: 3 per week

BTN103 URBAN DESIGN CONJECTURE STUDIO

Offered: Autumn

Identification and classification of approaches to urban design. The setting of objectives, the adoption of a method and the testing of implications for a particular urban design problem type. Each student will be required to undertake one study chosen typically from: local area, precinct, part of the city, the city as a whole. Where applicable, work in other units of study will be incorporated into this subject.

Credit Points: 9 Contact Hours: 3 per week

BTN104 URBAN DESIGN GUIDELINES STUDIO

Offered: Spring

Each student will be required to develop design guidelines for an urban complex, typically one of the following: a regional centre, a tourist development or a housing development and then to test a design guideline produced by a fellow student for a project other than the one used for his/her own design. Where applicable, work in other units of study will be related to this subject.

Credit Points: 9 Contact Hours: 3 per week

BTN105 URBAN DESIGN FIELD STUDIES STUDIO

Offered: Autumn

Aim: To provide students with direct experience of a range of recent and current urban design problems in Australia. The work in this subject will consist of a field trip of approximately two weeks duration. Visits will be paid to successful and unsuccessful examples of urban design and to design offices in the eastern states and the Australia Capital Territory.

Credit Points: 9 Contact Hours: 3 per week

BTN201 URBAN DESIGN HISTORY OF URBAN SYSTEMS

Offered: Autumn

This subject will offer a systematic analysis of urban forms and systems in the pre-industrial and post-industrial periods. Specific topics will include urban activities (commerce, manufacture, administration, dwelling, recreation and culture) -urban services (water supply, transportation, defence and public order, fire control, sewerage and waste disposal, fuel and power, public information) - urban form (planning for intelligibility, planning for propriety and symbolism, planning for delight).

Credit Points: 3 Contact Hours: 1 per week

BTN202 THE URBAN ENVIRONMENT & BEHAVIOUR I

BTN203 THE URBAN ENVIRONMENT & BEHAVIOUR II

Offered: Autumn, Spring

The city as a product and an influence on human behaviour. This subject will be studied over two semesters and will offer an organising framework for the investigation of interactions between people and the urban environment. Specific topics will include user groups and their spatial and temporal distribution, the impact of changing lifestyles, life cycles in the city, groups at risk, cultural norms and attitudes to the city, interpersonal and group behaviour in urban settings, individual behavioural responses, cognitive and evaluative responses, and psychophysical responses. Methods of observation and recording will be discussed in relation to each topic.

Credit Points: 3 (each)

Contact Hours: 1 per week (each)

BTN204 URBAN DESIGN THEORY & CRITICISM

Offered: Autumn

This subject covers a range of theoretical and critical writing about urbanism and urban design, with particular attention to the twentieth century. This subject



will be studied over two semesters and will investigate the characteristics of 'good theory' in the field of urban design in relation to the work of a number of theoretical writers and schools. Specific topics will include theoretical writing on urban design before 1800, theory and practice in the nineteenth century, the 'Kunstlericsen Grundsatzen' of Camillo Sitte, the Garden City movement, Le Corbusier and Modernism, Rowc and the city as independent artefact, Canter, Relph and Tuan on the phenomenology of the city, and Maitland's analysis of urban design concepts. Credit Points: 6 Contact Hours: 1 per week

BTN301 CONSERVATION & RE-USE IN URBAN DESIGN

Offered: Spring

Conservation principles and practice in the urban context, including the modification of existing fabric for re-use. Conservation of urban landscape, townscape, and urban structures will be considered. Specific topics will include conservation criteria (historical, aesthetic, environmental, sociological), conservation principles, evaluation for level of conservation on social and economic bases, conservation issues (private ownership, equity, acquisition, compensation, incentives), existing Australian and other heritage guides, conservation organisation, conservation methods, examples of urban conservation.

Credit Points: 3 Contact Hours: 1 per week

BTN302 THE URBAN LANDSCAPE

Offered: Spring

The city as a landscape unit, notable examples of city/site relationships; contribution of natural factors and patterns (topography, soils, drainage, vegetation, climate) towards better delineation of urban form and character. Spaces and their organisation, the city as spatial entity, sequential experience; spaces for specific purposes; the choreography of spaces - use, settings, and furnishings (enclosure, floors, overhead structures, services, features, finishes). Natural elements and their nurture within urban areas vegetation species, groupings, and their requirements (streets, plazas, forecourts, roofs, parks, urban forests, natural areas); water bodies and their conservation as healthy feature; urban wildlife - habitats and contribution to the urban experience; landscape conservation techniques in urban areas.

Credit Points: 3 Contact Hours: 1 per week

BTN303 TRANSPORT & MOVEMENT SYSTEMS IN URBAN DESIGN

Offered: Autumn

Origins and destinations of traffic movements. The road hierarchy and its characteristics. Features of major terminals, car parks, pedestrian and cycle networks. Modes of travel and transport systems, bus, railway and light rail, water evaluation of comparative systems. Major traffic generators: airports, terminals, CBD circulation. Related environmental and design issues: noise, atmospheric pollution, physical and visual impacts of different systems and traffic channels. Future trends in transport and movement systems and related issues.

Credit Points: 3 Contact Hours: 1 per week

BTN304 URBAN CLIMATE & SERVICES

Offered: Autumn

Urban Climate - the science of urban climate and design for micro-climatic comfort: effects on climatic factors of solar radiation, air movement, temperature, precipitation, glare, daylight control, etc. of such elements as urban planning layouts, building orientation and design, streetscape, open space, materials and finishes, etc. Urban Services - functional services of power, telephone, gas, water stormwater and sewerage reticulation: controlling authorities, planning requirements and controls relevant to urban design. Community services related to health, safety, and welfare (such as medical, fire, emergency services, libraries, police, community participatory groups): controlling authorities, extent of services provided and controls relevant to urban design. Credit Points: 3 Contact Hours: 1 per week

BTN305 TOURISM & RECREATION IN URBAN DESIGN

Offered: Spring

Tourism and recreation as generators of development: benefits and impacts; analysis of demand, trends, potential. Types of tourism and recreation, urban tourism; basic facilities of tourism and recreation. Specific facilities of resorts. Planning procedures strategy, controls, performance standards and infrastructure requirements. Multi cultural aspects and host culture implications.

Credit Points: 3 Contact Hours: 1 per week

BTN401 URBAN DESIGN COMPUTER APPLICATIONS

Offered: Spring

Introduction to the computers available at QUT. The use of computers to analyse and solve urban design problems and communicate solutions: feasibility studies; land use studies; generation of envelope and space layouts; environment and service systems analysis; development control testing; data handling and manipulation; computer graphics; and interactive integrated design systems.

Credit Points: 6 Contact Hours: 2 per hour

BTN402 LAW & LEGISLATION IN URBAN DESIGN

Offered: Autumn

The subject will investigate legislative controls and law reform related to urban design and the development process with specific reference to Queensland. Topics will include the potential range of legislative controls, principal relevant legislation in Queensland and its impacts on urban design, the development process, the roles of the developer, developments control authority, arbitration process and of the State Government and influences of additional legislation (e.g., Group Title, Heritage Acts, Pedestrian Malls) on the urban design process.

Credit Points: 3 Contact Hours: 1 per week

BTN403 URBAN DESIGN GUIDELINES & DEVELOPMENT CONTROL

Offered: Spring

Change and continuity as factors in urban environments. The contrasting needs for innovation and heritage, coherence and diversity, natural features and vigorous built form. Techniques of control: the use of regulations, ratios, and performance standards. Positive planning and the use of incentives for good design: bonuses, transferable rights, advance publication of permissible development, rapid decisions, early dissemination of information. The preparation of design guides and development briefs. Strategic choice in the management of change: the roles of public and private sectors in the development process. Case studies of design guidance: Adclaide, Perth, Melbourne, Canberra, Sydney, Victorian country towns, Spring Hill in Brisbane, British design guide housing, design guidance in San Francisco.

Credit Points: 3 Contact Hours: 1 per week



BTN404 URBAN DESIGN FEASIBILITIES & MANAGEMENT

Offered: Spring

The role of icasibility studies. Methods of assessment of feasibility. Evaluation of economic and social/environmental costs and benefits. Decision making criteria. Introduction to management. The management of urban projects, management structures, project team organisation, planning and programming, project control and maintenance.

Credit Points: 3 Contact Hours: 1 per week

BTN501 URBAN DESIGN RESEARCH DISSERTATION ELECTIVE

Offered: Spring

Each student will be required, with tutorial guidance, to prepare a dissertation on an individually selected topic approved by the Course Co-ordinator. The student will be required to show evidence of proficiency in research and application of research in the development of design ideas. This may be achieved through an emphasis on a design project or through a written process. The balance between theory and design application in the dissertation may vary. However, a dissertation which focuses on a specific design project must be supported by a theoretical analysis sufficient to define the problem and to explain how the design proposed satisfies the conditions for a solution. Conversely a dissertation which focuses on the development of a theory must sufficiently illustrate the practical implications of the theory for the relevant classes of design task. The dissertation will be supported by work undertaken as Research Electives. Unless specifically approved otherwise by the Course Co-ordinator, this subject shall be undertaken as a final semester subject.

Credit Points: 24 Contact Hours: 7 per week

BTN601 PRESCRIPTIVE SUBJECT FOR URBAN DESIGN

Offered: Autumn

To ensure a more effective balance of knowledge and skills in students from a variety of backgrounds, students will be required to take one or more existing subjects offered within Graduate Diploma, other Faculty courses, or specified courses elsewhere. Typically, a student would work 3 hours per week taking topics from the following: The Political Context, Economics of Town Planning, Urban Structure, Introduction to Computers in Planning, Graphics & Professional Presentation, Natural Environment Studies, History of Architecture, and European Cultural History. Topics will be prescribed for each student by the Course Co-ordinator on the basis of the students' qualifications and experience.

Credit Points: 9 Contact Hours: 3 per week

BTN701 URBAN DESIGN RESEARCH ELECTIVES I

BTN702 URBAN DESIGN RESEARCH ELECTIVES II

Offered: Spring, Autumn

These subjects are intended to give guidance on research techniques, to provide the opportunity for students to research areas of urban design of personal choice, and to provide a firm basis for the final Dissertation. Study required for these subjects may be undertaken within QUT or other academic institution or may be undertaken as individual research under direction of a tutor, all subject to the approval of the Course Co-ordinator. Research Electives I will also contain formal input on research and presentation techniques. The electives undertaken should be selected to support the topic of the Research Dissertation typically from the following within the Faculty of the Built Environment: Planning in Developing Countries, Computer Applications, Social Planning, Urban Land Development, Landscape Design,History of Landscape Design, Principles of Landscape Design, and Building Economics.

Credit Points BTN701:6; BTN702:15

Contact Hours BTN701:2; BTN702:3 per week

CEB102 CIVIL ENGINEERING I

Offered: Autumn

A series of lectures and field visits aimed at introducing the student to the profession of civil engineering, its scope and variety, and its many branches, whilst providing technical information that will prove useful for each discipline of engineering.

Credit Points: 3 Contact Hours: 1.5 per week

CEB184 ENGINEERING MECHANICS I

Offered: Autumn

A series of lectures, tutorials and practical work involving the study of bodies in static equilibrium under the action of forces. Topics covered include: resolution and resultant of forces acting on a particle or rigid body, equilibrium of particle or rigid body, analytical and graphical analysis of plane trusses, shearing force and bending moment in beams, the properties of sections and the introduction to stress and strain.

Credit Points: 7 Contact Hours: 3 per week

CEB185 ENGINEERING MECHANICS II Offered: Spring

A detailed study of the fundamental principles of structural mechanics and the application of computer programming to the same, i.e., stress, strain and elasticity; elastic compatibility; simple beam theory including the flexure formula and the shear stress formula; transformation of plane stress; torsion of eircular sections; stresses in thin walled pressure vessels.

Prerequisite: CEB184

Credit Points: 7 Contact Hours: 3 per week

CEB201 STEEL STRUCTURES

Offered: Full year

Structural behaviour and limit state design of steel structures, first as structural elements such as beams, columns, beam-columns and ties, then their connections (bolted and welded) and simple assemblies. Practical details and economy are discussed. Site visit and laboratory testing may be included.

Prerequisite: CEB185 Co-requisites: CEB281, CEB282 Credit Points: 4 per week Contact Hours: 1.4 per week

CEB202 CONCRETE STRUCTURES

Offered: Full year

Basic principles involved in the limit state design of reinforced concrete structures. The determination of size and reinforcement to resist shear and bending in beams. Anchorage and detailing of reinforcement. The evaluation of deflections in concrete structures and the analysis of long and short columns in uniaxial bending.

Prerequisite: CEB185

Co-requisites: CEB282, CEB281

Credit Points: 4 Contact Hours: 1.4 per week

CEB220 CIVIL SYSTEMS I

Offered: Spring

Lectures, tutorials and practical work dealing with computer applications in Civil Engineering Science.



Hardware and software integration within the data logging environment are discussed. Prerequisites: CSB191, MAB193, CEB185 Co-requisites: CEB252, CEB260 Credit Points: 6 Contact Hours: 2.8 per week

CEB231 CONCRETE TECHNOLOGY

Offered: Autumn

Materials: cement, aggregates, water quality, pozzolans, chemical admixtures and special materials. Testing: materials and concrete including quality control. Characteristics of concrete: plastic and hardened properties and influences of environment. Mix design: design for standard and special requirements. Credit Points: 7 Contact Hours: 3 per week

CEB240 SOIL MECHANICS I

Offered: Spring

Systematic description and classification of soil for engineering purposes, Moisture/density relationships. Compaction. Pore pressure, effective stress and suction. Shear strength of cohesionless and cohesive soils. Lateral earth pressure. Earth retaining structures design. Prerequisite: CEB185

Credit Points: 5 Contact Hours: 2,8 per week

CEB241 SOIL MECHANICS II

Offered: Autumn

Bearing capacity of shallow foundations. Permeability and seepage. Surface loading on an elastic medium. Pore pressure parameters. Consolidation. Settlement of shallow foundations. Design of shallow foundations. Computer applications in seepage and consolidation.

Prerequisite: CEB240

Credit Points: 7 Contact Hours: 3 per week

CEB253 STRUCTURAL ENGINEERING I

Offered: Spring

Lectures, tutorials, computer programming and laboratory work involving the calculation of deflections for determinate beams, frames and trusses and the analysis of indeterminate structures by the method of superposition. Introduction to buckling and computer based analytical procedures.

Prerequisites: CEB185, CEB282

Co-requisite: MAB493

Credit Points: 5

Contact Hours: 2.8 per week

CEB260 FLUID MECHANICS

Offered: Autumn

Introduction to fluid mechanics and its relationship to civil engineering practice. Fluid properties; fluid statics, pressure, forces, buoyancy and stability; continuity, energy and momentum applied to steady one-dimensional flows; viscosity, turbulence, boundary layers and fluid dynamics forces; dimensional analysis. The subject includes lectures, tutorials and practical work.

Prerequisites: CEB185, MAB193

Credit Points: 7 Contact Hours: 3 per week

CEB281 STRENGTH OF MATERIALS

Offered: Autumn

Extension of clastic theory from engineering mechanics into more complex states of stress and shape. Topics include - composites, stress strain transformations, un-symmetrical sections, shear flow, shear centre, torsion, theories of failure, stress concentrations and fatigue.

Prerequisite: CEB185 Co-requisite: CEB282 Credit Points: 5 Contact Hours: 2 per week

CEB282 STATICS

Lectures, tutorials and demonstrations involving the structural behaviour of trusses, beams and frames. Qualitative evaluation of deflected shapes, shear force and bending moment diagrams. Load paths and structural idealisation of real structures.

Prerequisite: CEB185 Co-requisites: CEB281, CEB184

Credit Points: 2 Contact Hours: I per week

CEB291 CIVIL ENGINEERING MATERIALS

Offered: Autumn

Physical, chemical and engineering properties of common civil engineering materials. Ferrous and nonferrous metals and alloys, timber, bitumen, cladding materials, polymers, corrosion of materials and protective measures. Selection of materials, Role of quality control in engineering subjects.

Prerequisites: MEB171, MEB133

Credit Points: 7 Contact Hours: 3 per week

CEB304 CIVIL ENGINEERING DESIGN I Offered: Full year

Design project work involving the use of steel and reinforced concrete, geotechnical and highway designs. The influence of construction method to design is emphasised. Students prepare design calculations and sketches with the help of design aids and computer software. The development of problem solving skills is emphasised throughout the projects. Prerequisites: CEB201, CEB202, CEB240 Co-requisites: CEB253, CEB354, CEB291

Credit Points: 8 Contact Hours: 4 per week

CEB305 CONSTRUCTION PLANNING & ECONOMICS

Offered: Spring

The use of manual and computer based methods for the planning and programming of projects. The fundamental principles of economic and financial analysis pertaining to both the planning and execution of engineering projects.

Prerequisites: CEB307

Credit Points: 6 Contact Hours: 3 per week

CEB306 CONCRETE STRUCTURES II Offered: Autumn

Basic principles involved in the serviceability limit state and ultimate limit state design of prestressed concrete structures. Stress blocks and equivalent loads due to prestress, losses, serviceability limit, states of cracking and deflection, ultimate limit states

of bending and shear, design of anchorage zones, evaluation of deflections, and anchorage zone reinforcement, design.

Prerequisite: CEB202

Contact Hours: 3 per week Credit Points: 7

CEB307 CONSTRUCTION PRACTICE

Offered: Autumn

Through a series of lectures, tutorials and field trips some basic procedures of Civil Engineering construction are introduced. This subject provides a foundation for further construction studies and also gives a practical perspective to later theoretical subjects. Prerequisites: CEB231, CEB281

Credit Points: 6 Contact Hours: 3 per week

CEB312 HIGHWAY ENGINEERING Offered: Spring

Lectures, practical work and field visits covering highway geometry including vehicle performance and human factors as they relate to road geometry,



geometric design, geometric co-ordination and use of computer aided design. Highway pavements including pavement materials and construction processes, pavement cross sections and drainage, pavement theory and pavement analysis methods.

Prerequisites: SVB306, MAB193, CEB102, CEB291, CSB191, CEB231

Co-requisites: MAB493, CEB240

Credit Points: 6 Contact Hours: 3 per week

CEB313 TRAFFIC ENGINEERING

Offered: Spring

Lectures, practical work and field work covering traffic theory including traffic behaviour, probability models, queuing and bunching; traffic management analysis including unsignalised and signalised intersections, street lighting, signs and markings, barriers and parking. Traffic capacity analysis including standards, warrants, and capacity and environmental volumes.

Prerequisite: MAB493 Co-requisite: CEB312 Credit Poiuts: 6 Contact Hours: 3 per week

CEB354 STRUCTURAL ENGINEERING II

Offered: Autumn

Structural analysis of determinate structures under moving loads using influence lines for beams and trusses. The analysis of indeterminate structures using moment distribution and matrix structural analysis techniques. Analysis of simple cable structures. Prerequisites CEB253, MAB493

Credit Points: 7 Contact Hours: 3 per week

CEB355 STRUCTURAL ENGINEERING HI Offered: Spring

The application of plastic analysis techniques to the analysis of beam, frame and slab structures. The use of approximate methods for structural analysis and checking purposes. Development of buckling theory. Prerequisite: CEB281

Co-requisites: MAB893, CEB354

Contact Hours: 3 per week Credit Points: 6

CEB359 PRINCIPLES OF STRUCTURES I Offered: Autumn

Terminology, forces and reactions; loading on structures, equilibrium and stability; co-planar and non co-planar forces; resolution of forces; mechanism of structural components under load: compression, tension, bending, shear, deflection. Connections.

Credit Points: 2 Contact Hours: 1 per week

CEB360 HYDRAULIC ENGINEERING I Offered: Spring

Lectures, tutorial and practical work on the applications of fluid mechanics to pipe and open channel flow, flow measurement and hydraulic machinery. Topics include: steady flow in pipes, networks, flow measurement, uniform flow in open channels, pump and turbines.

Prerequisite: CEB260 Co-requisite: MAB493 Credit Points: 6 Contact Hours: 3 per week

* Repeat-requisite - the prerequisite or co-requisite requirement may be satisfied by attempting the unit; a passing grade is not essential. A student is deemed to have attempted the unit if all assessment requirements have been attempted when registered for the unit. If failed, the repeat-requisite must be repeated at the first opportunity.

CEB361 HYDROLOGY

Offered: Spring

Lectures, tutorial and practical work providing an introductory course in hydrology and urban drainage design; hydrologic cycle, rainfall and runoff; groundwater evapotranspiration, statistical concepts, urban drainage design; unit hydrograph methods; flood studies; data generation, storage estimation. Prerequisite: CEB260 Co-requisite: CEB360 Credit Points: 6 Contact Hours: 3 per week

CEB364 ENGINEERING SCIENCE II

Offered: Spring

Fluids and fluid flow in pipes and channels. Flow measurement. Hydraulic models, Pumps and pump characteristics.

Prerequisite: MAB 199 Survey Mathematics I [R*] Credit Points: 6 Contact Hours: 3 per week

CEB370 PUBLIC HEALTH ENGINEERING I Offered: Spring

An introduction to the principles of public health engineering. Causes and effects of water pollution, principles of unit processes and operations of water quality control. An introduction to air pollution, its causes and control.

Prerequisite: CHB346

Credit Points: 6 Contact Hours: 3 per week

CEB393 ENGINEERING INVESTIGATION & REPORTING I

Offered: Spring

Lectures and practical work on the appropriate techniques of investigation and reporting on civil engineering processes. Each student will be required to carry out an investigation, prepare a formal written report on that investigation.

Prerequisite: CMB108

Credit Points: 3 Contact Hours: 2 per week

CEB401 DESIGN PROJECT

Offered: Autumn

Students work in groups to produce initial studies and outline designs of typical civil engineering projects. Students are required to produce a comprehensive definition of the design problems, to establish goals for the project, to identify and collect necessary information, to generate alternative solutions and to optimise some of these solutions. Students are to develop an awareness of the possible impact of civil engineering projects on ecosystems. Students prepare and present reports on various aspects of selected projects, including feasibility studies, environmental and economic assessment. Compulsory site visits are included.

Prerequisites: CEB361, CEB305, CEB313 Co-requisites: CEB470, CEB440 Credit Points: 5 Contact Hours: 3 per week

CEB403 PROFESSIONAL PRACTICE

Offered: Spring

Engineering organisations, project initiation, documentation, form of contract, contract administration, arbitration, safety and insurances, legal responsibilities, ethics.

Prerequisite: CSB191 Co-requisite: CEB305 Credit Points: 7 Contact Hours: 2 per week

CEB404 FIELD TRIP

Offered: Spring

This subject involves site visits to several civil and structural projects (generally under construction in south-east Queensland). The practical inspections are



supervised by lecturing staff and engineers associated with the project, and allow valuable consolidation of the theoretical aspects of other subjects.

Credit Points: 3 Contact Hours: 1.5 per week

CEB405 CIVIL ENGINEERING DESIGN II Offered: Full year

This subject is the continuation of Civil Engineering Design I with topics covering primarily civil engineering design, i.e., municipal civil/structural projects. Field visits are required. More general problem solving skills are developed so that graduates can successfully complete projects other than those covered during the course.

Prerequisites: CEB440, CEB304, CEB331 Co-requisites: CEB460, CEB410, CEB470 Credit Points: 6 Contact Hours: 3 per week

CEB406 STRUCTURAL APPLICATIONS

Offered: Spring

Lectures and tutorials involving analysis, design, supervision of construction and performance of structures. The course evolves around case studies. Topics include: structural systems, structure modelling, sketching, civil engineering structures, designing for construction, detailing and lessons from structural failures, timber structures and the role of testing, controlling vibrations in structures.

Prerequisites: CEB355, CEB291, CEB354

Credit Points: 8 Contact Hours: 3 per week

CEB421 CIVIL SYSTEMS II

Offered: Autumn

Lectures, tutorials on understanding and applying advanced civil engineering software. Methods of error checking and model validation are discussed.

Prerequisites: CEB220, CEB241, CEB260, CEB460, CEB355

Credit Points: 3 Contact Hours: 1 per week

CEB430 BUILDING CONSTRUCTION

Offered: Autumn

Through lectures, tutorials and a site visit this subject provides engineering students with a broad appreciation of building techniques and principles. The subject coverage includes details of building construction from foundations to fitting out for low and high rise structures. The requirements of building regulations as they affect construction are also discussed. **Prerequisite:** CEB305

Credit Points: 3 Contact Hours: 2 per week

CEB440 GEOTECHNICAL ENGINEERING I Offered: Spring

Bearing capacity and settlement of deep foundations. Introduction to rock mechanics. Stability of soil and rock slopes. Routine site investigation procedures. Computer applications in slope stability.

Prerequisite: CEB185, CEB240

Co-requisite: CEB241

Credit Points: 6 Contact Hours: 3 per week

CEB459 PRINCIPLES OF STRUCTURES II Offered: Spring

Loading on buildings. Foundations and footings. Timber, construction, floor, wall and roof framing and cladding, fastening and connections. Structural stability. Masonry construction: brickwork and blockwork, loadbearing construction, continuity, stiffening. Codes.

Prerequisite: CEB353

Credit Points: 4 Contact Hours: | per week

CEB460 HYDRAULIC ENGINEERING II

Offered: Autumn

A series of lectures, tutorial and practical work in hydraulics with particular emphasis on unsteady flow, movable boundary hydraulics, hydraulic models and hydraulic design of structures. Topics include: unsteady flow in pipes; unsteady flow in open channel flow; design of hydraulic structures such as transitions, culverts, crests, chutes etc., mobile boundary hydraulics; and the theory and practice relating to fixed and mobile boundary, natural scale and distorted models.

Prerequisite: CEB360 Co-requisite: CEB361 Credit Points: 7 Contact Hours: 3 per week

CEB470 PUBLIC HEALTH ENGINEERING II Offered: Autumn

Development of principles taught in CEB370 to enable functional design of treatment units to be undertaken. An introduction to sewerage and water reticulation. On completion of this unit the student should be able to proceed to simple design exercises in water supply and sewerage and treatment processes.

Prerequisite: CEB370

Credit Points: 5 Contact Hours: 3 per week

CEB491 PROJECT (CIVIL)

Offered: Full year

The student is required to undertake a relatively difficult task in an area of civil engineering practice requiring further research and development. Each project includes: a literature review; problem definition; organisation and execution of a program of investigation; critical analysis of investigation; presentation of a seminar on the work and presentation of a written report.

Prerequisite: Student must normally be in final year of course, however students in the penultimate year of their course may be given special permission to attempt Project.

Co-requisites: CEB393, CEB492

Credit Points: 9 Contact Hours: 3 per week

CEB492 ENGINEERING INVESTIGATING & REPORTING II

Offered: Autumn

A short series of lectures on verbal presentation techniques of civil engineering investigation topics. Each student is required to prepare a report and deliver a .5 hour lecture on a civil engineering investigation topic. **Prerequisite:** CEB393

Credit Points: 3 Contact Hours: 1 per week

CEB501 CIVIL ENGINEERING PRACTICE I Offered: Autumn

Lectures, tutorials, practical work and field trips covering current topics in a specified area of civil engineering at an advanced undergraduate level. Subject is offered irregularly. When offered, the subject material is advertised.

Prerequisite: Students must be substantially in the final year of course.

Credit Points: 6 Contact Hours: 3 per week

CEB503 ADVANCED CONSTRUCTION METHODS

Offered: Autumn

Through a series of lectures, tutorials and site visits this subject both examines existing practice and technology in the construction industry and provides insights into current and future developments in construction techniques and plant.

Prerequisites: CEB307, CEB305

Credit Points: 6 Contact Hours: 3 per week



CEB504 ENGINEERING SCIENCE III

Offered: Spring

Hydrology; rainfall, stream flow measurement; hydraulic design of drainage. Soil mechanics for surveyors; definition, properties and grading of soils; roadwork, foundation and retaining wall design; soil stability. Concrete technology; properties, manufacture and testing of concrete; elementary reinforced concrete design.

Co-requisite: CEB364

Credit Points: 5 Contact Hours: 3 per week

CEB505 PROJECT MANAGEMENT & ADMINISTRATION

Offered: Spring

Using case studies and 'role playing' techniques students are required to develop solutions to a variety of project management problems and to submit reports and make presentations regarding these exercises. **Prercquisite:** CEB305

Credit Points: 6 Contact Hours: 3 per week

CEB506 CIVIL ENGINEERING PRACTICE II Offered: Spring

Lectures, tutorials, practical work and field trips covering current topics in a specified area of civil engineering at an advanced undergraduate level. Subject is offered irregularly. When offered, the subject material is advertised.

Prerequisites: Students must be substantially in the final year of course.

Credit Points: 6 Contact Hours: 3 per week

CEB511 TRANSPORT ENGINEERING II

Offered: Spring

Lectures and practical work focussing in depth on two aspects of transport engineering - rural road upgrading and small urban area transportation planning/road needs requirement. Work covered includes highway upgrading, deficiency analysis, traffic accident analysis, traffic flow simulation, staged development including overtaking lanes and rural intersection design; application of four step transportation planning models, surveys, zone selection, network development, trip generation, distribution, assignevaluation and selection of road needs, sensitivity analysis.

Co-requisite: CEB512

Credit Points: 6 Contact Hours: 3 per week

CEB512 TRANSPORT ENGINEERING I Offered: Autumn

A series of lectures, practical work and field work covering land use/transport interaction, travel impedance, transport costs, trip distribution and multi model assignment, transport operations analysis, transport economics, transport capacity, urban road planning principles, urban transit planning, railway, aviation and bulk commodity systems design.

Prerequisites: MAB893, CEB312, CEB313

Credit Points: 6 Contact Hours: 3 per week

CEB520 FINITE ELEMENT METHODS Offered: Spring

Lectures and tutorials dealing with finite element, finite difference and similar numerical techniques. Theroretical and modelling considerations are covered in the context of case studies in structures, soil mechanics and hydraulics.

Prerequisite: CEB220

Credit Points: 6 Contact Hours: 3 per week

CEB532 CONCRETE & MASONRY STRUCTURES

Offered: Spring

The analysis and design of continuous prestressed concrete members. Detailing of concrete structures including halving joints, opening corners, beam intersections, deep beams, pile caps, etc. Masonry materials and properties. Design of reinforced and unreinforced concrete and clay masonry beams, walls and piers. This includes compression, vertical bending, lateral bending and shear. Walls include solid, hollow, cavity and diaphragm, and vertical prestressing is introduced.

Prerequisite: CEB355, CEB306

Credit Points: 6 Contact Hours: 3 per week

CEB541 GEOTECHNICAL ENGINEERING II Offered: Autumn

Analysis, design and installation of sheetpile walls and excavation support. Protection of adjacent structures. Analysis, design and installation of pile and pier foundations. Shallow foundations on rock. Rock sockets. Foundations on expansive soils. Site characteristics by in-situ testing methods. Selection of soil properties for design.

Prerequisite: CEB440

Credit Points: 6 Contact Hours: 3 per week

CEB542 GEOTECHNICAL ENGINEERING III Offered: Spring

Development of marginal lands: traffickability; embankments on soft soil; preloading; vertical drainage; vibroflotation; dynamic compaction and other methods of deep foundation improvement. Rock excavation and rock slope stabilisation. Soil improvement, including mechanical and chemical stabilisation, soil reinforcement and other techniques which may be economically feasible. Anchoring in soil and rock. Principles of earth and rockfill design and construction.

Prerequisite: CEB541

Credit Points: 6 Contact Hours: 3 per week

CEB551 ADVANCED STRUCTURAL DESIGN

Offered: Autumn

This subject widens and deepens experience in the structural design area. Emphasis is placed on the design of more complex structures. Normally three projects are studied which involve some or all of: design in new materials, new analytical techniques, new codes of practice, novel structures.

Prerequisites: CEB354, CEB201, CEB306 Credit Points: 6 Contact Hours: 3 per week

CEB559 PRINCIPLES OF STRUCTURES III Offered: Autumn

Structural properties of mild steel and high tensile steel. Structural framing and connections. Structural systems in steel: beams and columns, portal frames, space frames, trusses, tensile structures. Prerequisite: CER453

Prerequisite: CEB453 Credit Points: 4 Co

Contact Hours: 1 per week

CEB560 HYDRAULIC ENGINEERING III

Offered: Spring

Lectures, tutorial, practical work and site visits examining selected topics in water engineering. Topics are chosen from hydrology, mobile bed hydraulics, river hydraulics, hydraulic structures, urban drainage, physical and mathematical modelling.

Prerequisites: CEB361, CEB460

Credit Points: 6 Contact Hours: 3 per week



CEB561 COASTAL ENGINEERING

Offered: Autumn

Lectures and tutorial work on coastal engineering: wave theory, recording and analysis, wave generation; coastal processes, tides, surges etc, currents, sediment movement, foreshore protection; coastal inlets, general theory, canal systems; planning and design of coastal structures; hydraulic models for coastal studies. At least one major site visit is required. Prerequisite: CEB360 Co-requisite: CEB460

Credit Points: 6 Contact Hours: 3 per week

CEB570 PUBLIC HEALTH ENGINEERING III Offered: Spring

This subject covers basic solid waste management (of domestic, commercial and industrial wastes), together with a study of the general principles of industrial liquid waste management, with examples of some important industries. Students completing this subject will have gained a basic understanding of solid and industrial liquid waste management necessary for a municipal engineer operating in Queensland.

Co-requisites: CEB470

Credit Points: 6 Contact Hours: 3 per week

CEB659 PRINCIPLES OF STRUCTURES IV Offered: Spring

Structural behaviour of reinforced concrete. Basic theory of reinforced concrete beams and columns. Structural elements systems in reinforced concrete: post-and-beam, one and two-way slab, waffle slab, flat slab, Columns, Frames, Framing, walling and roofing in reinforced concrete.

Prerequisite: CEB553

Credit Points: 4 Contact Hours: 1 per week

CEB701 CIVIL ENGINEERING QUANTITIES I

Offered: Autumn

Introduction to the measurement of civil engineering works based on the study of SMM of Civil Engineering Quantities. Detailed study of construction methods, plant, specification and measurement of: earthworks, (clearing, levelling, borrow, compaction, control tests, quarries and dredging 0; roadworks (survey, clearing, bulk excavation and filling, pavement construction, kerbing, culverts, stormwater); and bridges (types of structures, foundations, prestressed concrete). It includes a brief introduction to computer applications such as earthwork calculations, bridge reinforcement. Credit Points: 4

Coutact Hours: 2 per week

CEB801 CIVIL ENGINEERING QUANTITIES II

Offered: Spring

Further study of SMM of Civil Engineering Quantities leading to measurement of: foundations: pad footings, piles and piers; bridges: further study, including abutments, superstructure, approach embankments, safety structures; wharves: over water work, deck structures; and specialised earthworks: tunnelling, dredging, quarrying, open cuts, earthworks, earth dams.

Prerequisite: CEB701

Credit Points: 3 Contact Hours: 2 per week

CEP107 CONSTRUCTION

MANAGEMENT & ECONOMICS

Offered: Autumn

The management of operational features of municipal practice. Topics include engineering economics, contracts, plant and labour considerations of concern to the municipal engineer and manager. Contact Hours: 2 per week Credit Points: 8

CEP109 MUNICIPAL LAW & REGULATIONS

Offered: Spring

The legislative framework for municipal engineering in Queensland. The various acts and regulations affecting the practising municipal engineer. The powers and responsibilities of the municipal engineer. Credit Points: 8 Contact Hours: 2 per week

CEP127 ROAD & TRAFFIC ENGINEERING

Offered: Autumn

Urban traffic management, parking systems, surveys, intersection analysis with emphasis on the design and evaluation of the urban road network. The design of rural roads. Design of pavement structures. Pavement management.

Credit Points: 12 Contact Hours: 3 per week

CEP128 MUNICIPAL ENGINEERING PLANNING

Offered: Autumn

The principles of town and regional planning for municipal engineers in Queensland. The objectives and methodology of planning, practical problem solving, legislation and other factors of concern to the municipal and development engineer.

Credit Points: 12 Contact Hours: 3 Per week

CEP131 ENGINEERING MANAGEMENT & ADMINISTRATION

Offered: Autumn

Management principles and functions. Strategic and tactical planning, forecasting, decision making, Budgeting and controls in organisations, techniques of project control. Human resources, managing change and development. Formulation of policy within a local authority. Local authority internal organisation, management, powers, responsibilities and functions, accounting and budgetary cycles, sources of finance and expenditure patterns.

Credit Points: 12 Contact Hours: 3 per week

CEP172 WATER QUALITY 200 ENGINEERING

Offered: Autumn

Characteristics of liquid wastes. Their effect on receiving waters. Dispersion and decay of pollutants in the water environment. Water quality standards and objectives.

Credit Points: 8 Contact Hours: 2 per week

CEP174 PUBLIC HEALTH ENGINEERING PRACTICE

Offered: Autumn

Water reticulation, network analysis. Water supply appurtenances. Sewerage design and construction, Materials and corrosion control, pumping station design. Unit operations and processes of water quality control. Process design parameters.

Credit Points: 12 Contact Hours: 3 per week

CEP200 PROCESS MODELLING

Offered: Spring

Role of models in engineering design and investigation. Principles of modelling techniques and their uses, limitations and relevant applications.

Credit Points: 8 Contact Hours: 2 per week



CEP215 ADVANCED TRAFFIC ENGINEERING

Offered: Spring

Traffic flow theory and traffic management. Development of computer analysis routines for urban intersection design, their background and applications. Prerequisite: CEP217

Credit Points: 8 Contact Hours: 2 per week

CEP218 TRANSPORTATION ENGINEERING

Offered: Autumn

Techniques for the appraisal of rural and urban area road systems, bus operations, airport design, construction and maintenance.

Credit Points: 12 Contact Hours: 3 per week

CEP276 ADVANCED TREATMENT PROCESSES

Offered: Spring

The design of water and wastewater treatment plants, including conventional and alternative processes. Current practice and development. Operation of treatment plants.

Prerequisite: CEP174

Credit Points: 8 Contact Hours: 2 per week

CEP277 WASTE MANAGEMENT

Offered: Spring

Characteristics and analysis of solid wastes. Collection, storage, transportation, handling, recycling and disposal. Sources and characteristics of industrial liquid wastes. Treatment design methodology. Pilot scale modelling and investigation. Case studies of selected classes of industrial wastes.

Co-requisite: CEP174

Credit Points: 12 Contact Hours: 3 per week

CEP310 URBAN TRANSPORTATION PLANNING

Offered: Spring

Transportation planning applications; road needs, urban transport, new developments, local area planning. Macro land use/transportation and micro urban transportation models; urban transportation zone selection and data needs; trip generation; model splits; survey techniques.

Credit Points: 8 Contact Hours: 2 per week

CEP361 DRAINAGE ENGINEERING

Offered: Autumn

Drainage engineering of interest to municipal engineers, road and railway designers, irrigation and general civil engineers. Subject covers rainfall and runoff models, both rational and computer models; drainage hydraulics of roof, streets, pipes, open channels, retention basins, culverts and bridges; erosion, sedimentation aspects of drainage, costs, planning policies and the law.

Credit Points: 8 Contact Hours: 2 per week

CEP491 MUNICIPAL ENGINEERING PRACTICE

Offered: Autumn

A prescribed program of individual supervised study in a selected area within the field of municipal engineering, involving one or more major assignments together with appropriate tutorials.

Credit Points: 16 Contact Hours: 3 per week

CEP999 PROJECT

Offered: Autumn, Spring

The student is required to investigate in depth an approved topic within the range of civil engineering practice and to carry out design, computing, model or experimental design and construction, experimental work and testing. The results are presented in a major formal report.

Credit Points: 36 Contact Hours: 8 per week

CET135 ENGINEERING MECHANICS

Offered: Autumn

Equilibrium of forces and moments, reactions, free body diagrams, truss analysis, shear force and bending moment diagrams.

Credit Points: 7 Contact Hours: 3 per week

CET195 CIVIL ENGINEERING I

Offered: Autumn

Lectures, tutorial work and field trips covering the scope and nature of civil engineering, the organisation of a civil engineering enterprise emphasising the engineering associate role, and emphasising the important skills of oral and written communication and measurement.

Credit Points: 7 Contact Hours: 3 per week

CET235 LABORATORY PRACTICE A Offered: Spring

The type and role of laboratories in civil engineering. NATA registration and calibration requirements. Quality control and assurance, basic statistics. Basic measuring equipment and techniques; associated calculations. Presentation of data in reports. Laboratory work in materials and hydraulic engineering to

demonstrate measuring techniques. Co-requisites: CET365, CET435

Credit Points: 3 Contact Hours: 3 per week

CET255 STRUCTURAL MECHANICS Offered: Spring

Stress direct flexure, shear in beams and shafts. Combined stress conditions. Deflections in beams and trusses.

Prerequisites: CET135

Credit Points: 7 Contact Hours: 3 per week

CET286 CIVIL OFFICE PRACTICE

Offered: Spring

An introduction to the preparation and layout of civil engineering drawings, and to design office procedures including methods of data manipulation, presentation and checking.

Prerequisite: MET120

Credit Points: 7 Contact Hours: 3 per week

CET287 CIVIL OFFICE PRACTICE A

Offered: Spring

Further experience in civil engineering design drafting/drawing, supplementing that undertaken in CET286 Civil Office Practice.

Prerequisite: MET120 Co-requisite: CET286 Credit Points: 3 Contact Hours: 3 per week

CET306 FIELD PRACTICE IA

Offered: Autumn

Tutorial, practical sessions and field trips supplemented by some lectures covering: setting out, as-built surveys and drawings, photography and field sketching; field measurement and sampling in water, soils and materials; implications of field measurements on design and construction practice.

Prerequisites: SVT306, CET365 Co-requisite: CET775 Credit Points: 3 Contact Hours: 3 week



CET365 HYDRAULIC ENGINEERING

Offered: Spring

Lectures, tutorials and practical work covering the properties of fluid, simple hydrostatics, fundamental characteristics and equations of fluid flow, pipe and open channel flow and hydraulic measurements. Laboratory and tutorial work covers basic fluid behaviour and provides an introduction to instrumentation.

Prerequisite: CET135

Credit Points: 7 Contact Hours: 3 per week

CET387 CIVIL ENGINEERING

DRAFTING A

Offered: Autumn

Further experience in municipal engineering design drafting/drawings, additional to that undertaken in CET585 Civil Engineering Drafting.

Prerequisite: CET286 Co-requisite: CET585

Credit Points: 3 Contact Hours: 3 per week CET405 FIELD PRACTICE IIA

Offered: Spring

This subject involves field visits and laboratory workshops on many aspects of civil engineering construction. Credit Points: 3 Contact Hours: 3 per week

CET435 CONCRETE PRACTICE

Offered: Spring

Raw materials, cements, aggregates, additives and admixtures. Properties of plastic and hardened concrete. Testing and quality control. Simple mix design, concrete manufacturing and transportation, construction procedures.

Credit Points: 7 Contact Hours: 3 per week

CET495 PROJECT A

Offered: Spring

The student is required to undertake a substantial project in his/her chosen field. This involves the investigation of the topic, performance of the tests, design calculations etc, and submission of a comprehensive report on sets of drawings.

Prerequisite: Subject must be in student's final year. Credit Points: 3 Contact Hours: 3 per week

CET565 ROAD & DRAINAGE ENGINEERING

Offered: Autumn

Elements of road construction and maintenance, road pavements types, design and construction. The drainage component includes road drainage principles, design and construction of urban and rural culverts, urban stormwater drainage systems. Prerequisites: CET815, CET645, CET365

Credit Points: 7 Contact Hours: 3 per week

CET585 CIVIL ENGINEERING DRAFTING Offered: Autumn

Preparation of municipal engineering drawings including roadworks and stormwater drain exercises. Exercises refer to State and local authority standards. Projects will involve varying amounts of design computations and at least one example involves computer usage. Introduction to quantity takcoff, bills of quantities, cost estimates and cross referencing between drawings, bills or quantities and specifications.

Prerequisite: CET286 Co-requisite: CET565 Credit Points: 7

Contact Hours: 3 per week

CET598 PROJECT II

Offered: Autumn

An individually designed program including designs, reports and investigations in the area of sanitary engineering.

Prerequisite: The student must have completed or be exempt from the first four semesters of the part-time course

Credit Points: 21 Contact Hours: 9 per week

CET606 CONSTRUCTION MANAGEMENT Offered: Autumn

Construction planning, organisational structure, construction reporting, contract, management and administration, human relations, plant hire.

Credit Points: 7 Contact Hours: 3 per week

CET645 SOIL MECHANICS I

Offered: Autumn, Spring

Identification and classification of soils; testing methods required. Compaction of soil, soil permability, effective and total stress, shear strength and compressibility. Introduction to retaining walls, bearing capacity, CBR testing and in situ sampling and testing. Prerequisite: CET135

Credit Points: 7 Contact Hours: 3 per week

CET655 CONCRETE & STEEL DESIGN Offered: Autumn, Spring

Principles of structural design. Design in structural steel, detailing of clements. Design of concrete members, detailing of elements.

Prerequisites: CET135, CET255, CET435 Credit Points: 7 Contact Hours: 3 per week

CET703 CIVIL ENGINEERING PRACTICE I

Offered: Autumn

Lectures, tutorials, practical work and field trips covering current topics in a specified area of civil engineering practice at a level appropriate to the course and as approved by the Head of School. The content of this subject may be changed from semester to semester depending on demand and available staff. Prerequisite/Co-requisite: Students must be in the final year of course.

Credit Points: 7 Contact Hours: 3 per week

CET704 CIVIL CONSTRUCTION PRACTICE

Offered: Autumn, Spring

Principles of temporary works design. Form work, false work and scaffolding. Sharing, de watering, excavation and earthworks. Plant introduction to the Construction Safety Act and Regulations.

Credit Points: 7 Contact Hours: 3 per week

CET707 MUNICIPAL ENGINEERING

Offered: Autumn

Structures and function of local authorities, Local roads, streets, traffic management, swimming pools, solid waste management, drainage, bridges, town planning, subdivision, landscaping, building practice, relevant legislation.

Prerequisites: CET815

Co-requisites: CET565, CET775

Credit Points: 7 Contact Hours: 3 per week

CET708 SPECIFICATIONS & ESTIMATES

Offered: Spring

General conditions of contract, arbitration, annexures, specifications, special provisions. Types of estimates. Mechanics of estimating, computer applications. Credit Points: 7 Contact Hours: 3 per week

CET709 SAFETY & INDUSTRIAL RELATIONS

Offered: Spring

Lectures, tutorials, practical work and field trips covering current systems and practices in occupational safety and health programs, the industrial relations system in Australia, and the man management techniques which may be employed to create a good industrial relations climate on a site or in an industry. **Credit Points:** 7 **Contact Hours:** 3 per week

CET735 ADVANCED LABORATORY TESTING I

Offered: Autumn

A variety of testing work is undertaken to give the student experiences with a range of equipment and testing procedures. The program includes tests in a number of selected laboratory areas.

Credit Points: 7 Contact Hours: 3 per week

CET756 BUILDING CONSTRUCTION PRACTICE

Offered: Autumn, Spring

Practical aspects associated with reinforced, prestressed concrete (in situ and precast). Steel construction aspects associated with fabrication and erection. Building construction aspects of clay brick and concrete masonry construction including cladding. Overview of building regulations.

Prerequisite: MET141

Credit Points: 7 Contact Hours: 3 per week

CET775 PUBLIC HEALTH ENGINEERING Offered: Autumn

The design construction and operation of water supply and sewerage systems, including materials and equipment. Pumping station layout and operation. Basic principles of water quality control. Treatment plant construction, layout and operation.

Prerequisite: ČET365 Credit Points: 7 Contact Hours: 3 per week

CET776 EQUIPMENT OPERATION & MAINTENANCE

Offered: Spring

Lectures, tutorial exercises, practical work and site visits examining the principles and practice of the operation and maintenance of equipment in water and wastewater treatment plants. Topics include: overview of plant; motors, engines, pumps, compressors and generators; rotary and rectilinear scraping and raking mechanisms; chemical handling, mixing, dosing; safety and maintenance scheduling for specific equipment items.

Prerequisites: CET365, CHA140

Credit Points: 7 Contact Hours: 3 per week

CET777 PROCESS OPERATION & CONTROL I

Offered: Autumn

A study of the principles of unit processes of water and wastewater treatment, with particular reference to their operation. The methods of operational control of these processes.

Prerequisites: CET365, CET775, CHA140 Credit Points: 7 Contact Hours: 3 per week

CET787 STRUCTURAL ENGINEERING DRAWING

Offered: Autumn, Spring

Preparation of structural engineering drawings covering basic steel work and reinforced concrete works. Reinforcing schedules together with details of steel connections.

Prerequisites: MET120, CET286, CET585, CET655 Credit Points: 7 Contact Hours: 3 per week

CET797 PROJECT I

Offered: Autumn, Spring

The student is required to undertake a substantial project in his/her student's chosen field. This involves

the investigation of the topic, performance of tests, design calculations etc, and submission of a comprehensive report on sets of drawings.

Prerequisite/Co-requisite: Subject must be in student's final year.

Credit Points: 7 Contact Hours: 3 per week

CET802 CIVIL ENGINEERING PRACTICE II Offered: Spring

The synopsis of this subject is the same as CET703. Prerequisite/Co-requisite: Students must be in the final year of course.

Credit Points: 7 Contact Hours: 3 per week

CET815 ROAD LOCATION & DESIGN Offered: Spring

Road location principles, road design and geometry including computer applications, subdivision and subdivision street design, introduction to traffic engineering, intersection design.

Prerequisite: SVT306 Co-requisite: CET286 Credit Points: 7 Contact Hours: 3 per week

CET837 LABORATORY PRACTICE

Offered: Spring

Laboratory organisation and NATA registration. Measurement of strain, temperature, force, pressure and linear devices; their calibration and accuracy. Data logging, photography, concrete and aggregate testing. Credit Points: 7 Contact Hours: 3 per week

CET838 ADVANCED LABORATORY TESTING II

Offered: Spring

Testing projects undertaken in a more limited number of specialist areas and presented as a series of reports. Each report is expected to include a discussion of the tests undertaken, based on the student's experience and background reading.

Prerequisite: CET735

Credit Points: 7 Contact Hours: 3 per week

CET856 FORMWORK DESIGN

Offered: Spring

Concrete pressures, load on formwork, false work stability, timber characteristics, soffit systems; conventional, proprietary, stripping, reshoring, multistorey reshoring, multiple tiebeam systems, waffle floors, beam forms, wall forms; conventional proprietary, columns, permanent forms, moving systems, special systems, form failure planning, documentation, architectural concrete. **Prerequisite:** CET435

Credit Points: 7 Contact Hours: 3 per week

CET876 PLANT OPERATION & MAINTENANCE

Offered: Spring

The operation and maintenance requirements of water quality treatment plants, including scheduling, labour control, workshop organisation, safety, training and performance monitoring.

Prerequisite: CET606 Co-requisite: CET776 Credit Points: 7 Contact Hours: 3 per week

CET877 PROCESS OPERATION & CONTROL II

Offered: Spring

An extension of the studies - covered in CET777 - of unit processes of water and wastewater treatment with particular reference to their operation. The methods of operational control of these processes.

Prerequisite: CET777 Credit Points: 7

Contact Hours: 3 per week



CET887 COMPUTER AIDED DRAFTING

Offered: Spring

A series of lectures, tutorials, practicals and demonstrations on the VAX780 mainframe and personal computers covering civil and structural drawings presentations. Outputs from various computer design programs are used as examples. Prerequisite: CET286

Contact Hours: 3 per week Credit Points: 7

CET888 STRUCTURAL DRAWING & DESIGN

Offered: Spring

Minor structural design and layout. Preparation of advanced structural engineering drawings covering steel, reinforced and prestressed concrete and timber where geometric and physical restraints interact with the structural design process. Prerequisites: MET120, CET286

Co-requisites: CET787, CET585, CET655 Crcdit Points: 7 Contact Hours: 3 per week

CET894 COMPUTATIONS A

Offered: Autumn

Calculations involving aspects of civil engineering. Computer aided design. Planimeters. Technical reports. Co-requisite: SVT306

Credit Points: 3 Contact Hours: 3 per week

CHA111 LABORATORY TECHNIQUES

Offered: Autumn, Spring

A course introducing safe and proficient procedures in the laboratory, and giving practice in the manipulation of common elementary laboratory apparatus, equipment and reagents. On completing the course the student should be able to handle, correctly and safely, all the basic pieces of laboratory equipment and be familiar with their main functions and limitations. Credit Points: 8 Contact Hours: 3 per week

CHA145 INTRODUCTORY CHEMISTRY

Offered: Autumn

An integrated course of fundamental chemistry covering: the nature of chemistry, atomic molecular and nuclear structure, bonding and types of bonds; the structure and nature of matter, molecular formulae, atomic and molecular weights; the periodic classification; reduction/oxidation, chemical equilibria; liquids and solutions and simple phase equilibria; equilibria in electrolyte solutions; pH and its measurement. Carbon chemistry and functional groups. The chemistry and properties of some common laboratory chemicals. Practical applications are emphasised. Credit Points: 8 Contact Hours: 3 per week

📓 CHA218 ANALYTICAL CHEMISTRY I

Offered: Autumn, Spring

A lecture and laboratory program covering fundamental theory and techniques of titrimetric and gravimetric analysis.

Prerequisite: CHA111

Credit Points: 8 Contact Hours: 3 per week

CHA219 QUALITATIVE ANALYSIS Offered: Spring

This course considers the behaviour of a range of common cations and anions towards common laboratory reagents. These reactions form the basis of procedures for the separation and identification of these cations and anions. Qualitative testing for elements in organic molecules together with test procedures for qualitative identification of functional groups in organic molecules also are covered, Prerequisite: CHAIII

Contact Hours: 3 per week Credit Points: 6 *******

CHA230 CHEMISTRY OF INORGANIC MATERIALS

Offered: Autumn, Spring

The occurrence, extraction/manufacture, properties and uses of the elements and the important inorganic compounds derived from a selection of members of the chemical groups.

Prerequisite: CHA145

Credit Points: 4 Contact Hours: 2 per week

CHA240 INSTRUMENTAL TECHNIQUES Offered: Spring

An overview of the principles and practice of modern instrumental analysis, including the nature of electromagnetic radiation and its interaction with matter; use of visible, UV and IR spectroscopy; emission and absorption phenomena; chromatographic techniques and electroanalytical chemistry.

Prerequisite: CHA111 Co-requisite: CHA218 or CHA111 + PHA154, and PHA258

Credit Points: 8 Contact Hours: 3 per week

CHA250 ORGANIC CHEMISTRY I

Offered: Autumn, Spring

An introduction to functional group chemistry including hydrocarbons, aromatic compounds, organic halides, alcohols, phenols and ethers and also an introduction to the use of infrared spectroscopy to indicate the presence of particular functional groups. Prerequisite: CHA145

Credit Points: 8 Contact Hours: 3 per week

CHA270 PHYSICAL CHEMISTRY I

Offered: Autumn, Spring

The first part of an integrated syllabus of physical chemistry in the Associate Diploma. A study of the fundamental aspects of chemical energetics, solution chemistry and equilibria and practical applications thereof.

Prerequisite: CHA145

Credit Points: 8 Contact Hours: 3 per week

CHA318 INSTRUMENTAL ANALYTICAL CHEMISTRY 纞

Offered: Autumn

A course of lectures and practical work introducing the principles and practices of mass spectrometry, fluorescence spectroscopy and ICP together with further development of selected topics from the unit CHA240. Prerequisite: CHA218 & CHA240

Co-requisite: CHA319

Credit Points: 8 Contact Hours: 4 per week

🖾 CHA319 ANALYTICAL CHEMISTRY II Offered: Autumn

A course of lectures and practical work designed to develop further the basic titrimetric and gravimetric analysis principles introduced in the unit CHA218. The practical program will feature the analysis of commercial materials with emphasis on sample dissolution techniques.

Prerequisite: CHA218, CHA219

Credit Points: 6 Contact Hnurs: 3 per week

CHA320 CHEMICAL PROCESS PRINCIPLES I 鶅

Offered: Autumn

This course discusses chemical reactors (both homogeneous and heterogeneous), unit operations



(transport and preparation of materials and separation of materials) and material and energy balances in chemical processes.

Prerequisite: CHA270 Co-requisite: CHA370 Credit Points: 8 Contact Hours: 3 per week

CHA350 ORGANIC CHEMISTRY II

Offered: Autumn, Spring

This subject continues the study of functional groups and includes carbonyl compounds, carboxylic acids and their derivatives, organic nitrogen compounds, including heterocycles, as well as selected polyfunctional compounds such as triglycerides, amino acids and proteins. Further uses of infrared spectroscopy are discussed.

Prerequisite: CHA250

Credit Points: 8 Contact Hours: 3 per week

CHA368 INDUSTRIAL CHEMISTRY

Offered: Spring

This subject aims to develop an appreciation of the basic aspects of product and quality control, an understanding of the underlying fundamental chemistry and an overall concept of the chemical technology involved in, for example, the petroleum and petrochemical industry, the polymer, plastic and adhesive industries, the paint industry, the textile industry, the sugar industry, water treatment plants, the glass and ceramics industry, and the cement industry. Field trips are an integral part of this subject. **Prerequisites:** CHA250, CHA320

Credit Points: 8 Contact Hours: 4 per week

CHA370 PHYSICAL CHEMISTRY II Offered: Autumn

The second part of the integrated syllabus of physical chemistry of the Associate Diploma. Covers the areas of chemical kinetics, surface chemistry and elementary electrochemistry.

Prerequisite: CHA270

Credit Points: 6 Contact Hours: 2 per week

CHA410 COMPUTERS IN CHEMISTRY

Offered: Spring

This course outlines the use of computers in various aspects of the chemical industry - both in laboratory and plant. The different approaches to laboratory automation are discussed and a detailed study of computer control in a selected industry undertaken. Field trips also are included.

Prerequisite: CSA259

Credit Points: 8 Contact Hours: 3 per week

CHA442 INTRODUCTION TO OCCUPATIONAL SAFETY

Offered: Autumn

Basic first aid relevant to laboratory, plant and field situations; principles and practice of safe handling of common laboratory chemicals; safety aspects of laboratory design.

Note: This subject is incompatible with CHA440; credit may not be retained for both.

Credit Points: 4 Contact Hours: 2 per week

CHA 520 CHEMICAL PROCESS PRINCIPLES II

Offered: Autumn

A lecture and laboratory course which deals with measurement systems, the principles of process control and the applications of process control in the chemical industry.

Prerequisite: CHA230

Credit Points: 8 Contact Hours: 3 per week

CHA550 ORGANIC CHEMISTRY III Offered: Spring

This subject aims to give students an appreciation of the chemistry and uses of organic compounds encountered in industry, such as agricultural chemicals, fats and oils, waxes, detergents, dyes, drugs, elastomers, fibres, adhesives and cellulose derivatives. **Prerequisite:** CHA350

Credit Points: 8 Contact Hours: 3 per week

CHA580 FOOD CHEMISTRY I

Offered: Autumn

Topics covered include the basic chemical components of food, fats and oils, proteins, carbohydrates, vitamins and minerals and factors affecting quality such as texture, flavour and colour. Measurements of food quality. A major assignment related to the dairy industry is incorporated.

Prerequisites: CHA240 & CHA250 & CHA218 Co-requisites: CHA350

Credit Points: 8 Contact Hours: 3 per week

CHA610 INDUSTRIAL ANALYSIS

Offered: Spring

A course involving the use of both qualitative (semimicro) and quantitative techniques in the analysis of commercially important materials, including ores, cement, fertiliser, fats and oils and sugar products. **Prerequisites:** CHA318, CHA319

Credit Points: 8 Contact Hours: 3 per week

CHA644 PROCESS MEASUREMENT & MONITORING I

Offered: Spring

A study of the physical and chemical measurements involved in: the analysis of raw and potable waters; and the determination of organic and microbiological pollution. Emphasis is placed on sampling and sample preservation laboratory techniques, interpretation of results and the significance of the measured parameters in the operation and control of water and wastewater treatment plants.

Prerequisites: CET365, CET775

Co-requisite: CHA140

Credit Points: 7 Contact Hours: 3 per week

CHA670 PHYSICAL CHEMISTRY III

Offered: Spring

This subject forms the third part of the integrated syllabus of physical chemistry of the Associate Diploma and covers the areas of applied electrochemistry, corrosion, distillation and extraction. Practical applications are emphasised.

Prerequisite: CHA370

Credit Points: 8 Contact Hours: 3 per week

CHA680 FOOD CHEMISTRY II

Offered: Spring

A more advanced unit covering the chemistry and principal methods of food processing and preparation. A further major assignment appropriate to the dairy industry is incorporated.

Prerequisite: CHA580

Credit Points: 8 Contact Hours: 3 per week

CHA744 PROCESS MEASUREMENT & MONITORING II

Offered: Autumn

The physical and chemical measurements involved in: the determination of inorganic and other selected pollutants; the analysis of sewage and other sludges; and the testing of sewage effluents together with an intro-



duction to specialised analytical techniques including atomic absorption spectrophotometry, chromatography and polarography. Emphasis is placed on sampling and sample preservation laboratory techniques, interpretation of results and the significance of the measured parameters in the operation and control of water and wastewater treatment plants.

Prerequisite: CHA644

Credit Points: 7 Contact Hours: 3 per week

CHA844 TRADE WASTE CONTROL

Offered: Spring

A study of industrial wastes with respect to typical waste characteristics, effects on natural waters, sewers and treatment plants, methods of inhouse treatment and their achievable effluent levels, monitoring techniques, legislation and charging procedures. **Prerequisites:** CET777, CHA744

Credit Points: 7 Contact Hours: 3 per week

CHB001 INTRODUCTORY CHEMISTRY

Offered: Autumn

For students without a pass in Senior Chemistry. Scientific measurement, atomic structure, periodic table, chemical equations, stoichiometry and calculations, chemical bonding, chemical reactivity, acids and bases, redox systems, properties of matter, chemical thermodynamics, enthalphy, heat of reactions, organie chemistry.

Credit Points: 6 Contact Hours: 3 per week

CHB002 INTRODUCTION TO ENGINEERING CHEMISTRY

Offered: Autumn

This subject provides a basis for understanding applications of chemistry in engineering, and introduces basic concepts of chemistry including: chemical equilibria, solution, chemistry and states of matter. Credit Points: 2 Contact Hours: 1 per week

Credit Points: 2 Contact Hours: 1 per week

CHB101 CHEMISTRY IA

Offered: Autumn

A series of lectures and tutorials introducing the important concepts in chemistry. Topics include principles of physical chemistry, chemical bonding and molecular geometry and an introduction to the chemistry of carbon compounds.

Co-requisite: CHB001, or Senior chemistry

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with CHB150, CHB180; credit may not be retained for more than one of these subjects.

CHB102 CHEMISTRY IB

Offered: Autumn, Spring

A course in practical chemistry covering the experimental aspects of analytical chemistry, physical chemistry and organic chemistry. This is primarily an experimental program supported by appropriate lectures.

Co-requisite: CHB101 (+ CHB001 unless Senior Chemistry has been undertaken)

Credit Points: 6 Contact Hours: 3 per week Note: This subject is not compatible with CHB101; credit may not be retained for both

CHB110 ANALYTICAL CHEMISTRY I

Offered: Autumn

Introduction to analytical ehemistry. Examples of acid base titrations, reduction-oxidation titrations and precipitation titrations are used to develop the theory and practice of volumetric analysis. Gravimetric analysis is introduced and both precipitimetric and evolution methods are discussed. A coverage of methods available for handling experimental results is given, including absolute and relative precision and accuracy, deviations, rejection of results, significant figures, sources of error and means by which they may be minimised.

Credit Points: 6 Contact Hours: 3 per week

CHB150 ORGANIC CHEMISTRY I

Offered: Autumn, Spring

An introduction to the principles of organic chemistry. Topics include: principles of bonding and their effect on organic structure; nomenclature; influence of acidity, polarity and structure on reactivity; the major reaction types; properties of hydrocarbons and alkyl halides.

Credit Points: 8 Contact Hours: 4 per weck Note: This subject is not compatible with CHB101, CHB102; credit may not be retained for more than one of these subjects.

CHB180 PHYSICAL & INORGANIC CHEMISTRY I

Offered: Autumn

The structure and bonding of atoms and molecules; elementary thermodynamics including the First Law and thermochemistry; the states of matter and the gas laws; homogeneous, heterogeneous and ionic equilibria; elementary kinetics and experimental methods. Principles of non-redox and redox ionic reactions involving oxygen compounds; Periodic Table and periodicity; chemistry of simple acids, bases and salts; chemistry of hydrogen and hydrides; applications.

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with CHB101, CHB102; credit may not be retained for more than one of these subjects.

🔟 CHB201 CHEMISTRY IIA

Offered: Spring

A series of lectures and tutorials continuing the study of the principles of chemistry covered in CHB101. **Prerequisite:** CHB101

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with CHB230, CHB250, CHB270; credit may not be retained for more than one of these subjects.

CHB202 CHEMISTRY IIB

Offered: Spring

A course in practical chemistry covering experimental aspects of inorganic, physical and organic chemistry that expands on the techniques covered in CHB 102.

Prerequisite: CHB102 Co-requisite: CHB201

Credit Points: 6 Contact Hours: 3 per week Note: This subject is not compatible with CHB201; credit may not be retained for both.

CHB210 ANALYTICAL CHEMISTRY II Offered: Spring

Volumetric and gravimetric techniques introduced in the unit CHB110 are applied to more complex samples. Complexometric and back titration techniques are introduced; qualitative organic analysis is discussed with reference to separation methods based on functional groups and solubility; simple colorimetric methods are used as an introduction to instrumental analysis.

Prerequisite: CHB110

Credit Points: 6 Contact Hours: 3 per week

CHB230 INORGANIC CHEMISTRY II

Offered: Autumn, Spring

A course of lectures and practical work in the area of general applied inorganic chemistry encompassing



the topics of the chemistry of the non-metals and anions; the chemistry of main group and transition metals; basic co-ordination chemistry.

Prerequisite: CHB180

Credit Points: 6 Contact Hours: 3 per week

CHB250 ORGANIC CHEMISTRY II

Offered: Autumn, Spring

Alkenes and alkynes - electrophilic and free radical addition. Benzene - aromatic character, electrophilic substitution. Alcohols, phenols and ethers nucleophilic reactions, exidation. Aldehydes and ketones - addition reactions, oxidation and reduction, active hydrogen reactions, synthesis from Grignard reagents. Simple spectroscopic properties (infrared and ultraviolet) of the above classes.

Prerequisite: CHB150

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with CHB201, CHB202; credit may not be retained for more than one of these subjects.

CHB270 PHYSICAL CHEMISTRY II

Offered: Spring

The Second Law of thermodynamics; introductory surface chemistry and electrochemistry; the properties of liquids and solutions and the phase chemistry of one component systems; molecular bonding and introductory spectroscopy.

Prerequisite: CHB180

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with CHB201, CHB202; credit may not be retained for more than one of these subjects.

CHB310 ANALYTICAL CHEMISTRY III

Offered: Autumn, Spring

Calculation of titration curves for redox, precipitimetric and complexometric titrations, conditional stability constants, masking and demasking phenomena, organic analytical reagents, gravimetric theory, methods and theory of sampling, errors, sample dissolution, electrodeposition, potentiometric methods, ion selective electrodes, coulometry, polarography.

Prerequisite: CHB101 + CHB102 or CHB201 + CHB202 or CHB110 + CHB210 + CHB270

Credit Points: 8 Contact Hours: 4 per week

CHB327 CHEMICAL TECHNOLOGY III Offered: Autumn

Introduction to chemical process industries. Economic significance. Flowsheets. Unit operations: basic concepts, a study of range of unit operations selected from: communition, classification, leaching, solid-Iluid separations, drying, fluid transport, agitation, liquid-liquid extraction, heat exchange, evaporation, distillation, gas absorption.

Prerequisites: CHB180 + PHB260 or CHB101 + CHB102 + PHB110 + PHB111

Credit Points: 6 Contact Hours: 3 per week

III CHB340 SPECTROSCOPY

Offered: Autumn, Spring

The theory of rotational, vibrational and electronic spectroscopy. Instrumentation and spectroscopic methods of analysis.

Prerequisites: CHB180 or CHB110 or CHB101 + CHB102 + CHB201

Credit Points: 8 Contact Hours: 3 per week

CHB344 ENGINEERING CHEMISTRY M

Offered: Spring

This introductory subject in chemistry for mechanical engineers covers topics including fuels and their combustion, the chemistry of lubricants and lubrication, metallie corrosion and water treatment processes. **Prerequisite:** CHB002

Credit Points: 4 Contact Hours: 2 per week

CHB350 ORGANIC CHEMISTRY III

Offered: Autumn, Spring

This unit continues the study or organic functional groups and extends the students' knowledge to include simple molecules of biological significance. A study of the stereochemical aspects of organic chemistry is included along with a more detailed examination of spectroscopic properties, including ultraviolet, infrared and nuclear magnetic resonance spectroscopy.

Prerequisites: CHB150, CHB250

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with CHB351; eredit may not be retained for more both.

CHB351 ORGANIC CHEMISTRY IIIC Offered: Autumn

This unit continues the study of organic functional groups and extends the students' knowledge of the mechanisms of simple organic and biochemical processes. A study of organic spectroscopy is also involved and includes ultraviolet, infrared and nuclear magnetic resonance spectroscopy.

Prerequisites: CHB101, CHB102, CHB202

Credit Points: 8 Contact Hours: 5 per week Note: This subject is not compatible with CHB350; credit may not he retained for both.

CHB370 PHYSICAL CHEMISTRY III Offered: Autumn

Experimental, theoretical and applied reaction kinetics; thermodynamics; real fluids; gas absorption and heterogeneous catalysis; phase equilibria. **Prerequisites:** CHB180, CHB270

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with CHB371; credit may not be retained for both.

CHB371 PHYSICAL CHEMISTRY IIIC Offered: Autumn

Experimental, theoretical and applied reaction kinetics; thermodynamics; real fluids; gas adsorption and heterogeneous catalysis; phase equilibria. **Prerequisites:** CHB101, CHB102, CHB201

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with CHB370; credit may not be retained for both.

CHB411 ENVIRONMENTAL ANALYTICAL CHEMISTRY

A course of lectures and practical work for students of biological sciences dealing with the principles and application of sampling, and electrometric/spectroscopic/flame separation methods to the analysis of materials from the biosphere.

Prerequisites: CHB101, CHB102, CHB201, CHB202 Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with a major in Chemistry.

CHB427 CHEMICAL TECHNOLOGY IV Offered: Spring

Numerical, graphical and computer aids to problem solving. Chemical process principles. Industrial stoichiometry, material balances for solids, liquids,



gases and vapours. Energy balances. Combined material and energy balances. Balances on reactive processes.

Prerequisite: CHB327

Credit Points: 8 Contact Hours: 4 per week

CHB430 INORGANIC CHEMISTRY IV

Offered: Autumn, Spring

A course of lectures and practical work relating to the topies of crystal field theory, solution chemistry of metal complexes, principles of bio-inorganic chemistry and the chemistry of post-transition elements. **Prerequisites:** CHB230 or CHB201 + CHB202 **Credit Points:** 8 **Contact Hours:** 3 per week

CHB440 SEPARATION METHODS

Offered: Spring

Basic principles and applications of solvent extraction. Principles and practices of chromatography with reference to column chromatography, ion exchange chromatography, molecular sieves, gel permeation chromatography, thin layer chromatography, paper chromatography. Gas chromatography with particular reference to theory, instrumentation and applications including column selection, efficiency, detectors, resolution and temperature programming. Liquid chromatography with particular reference to instrumentation, columns, detector systems and applications.

Prerequisites: CHB210 + CHB250 + CHB270 or CHB201 + CHB202

Credit Points: 8 Contact Hours: 3 per week

CHB450 ORGANIC CHEMISTRY IV

Offered: Autumn, Spring

A study of the reactions and properties of polyfunctional organic compounds as well as heterocyclic compounds particularly naturally occurring and technically useful compounds. Rearrangement reactions and the chemistry of organometallic compounds also are studied.

Prerequisites: CHB250, CHB350

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with CHB451; credit may not be retained for both.

CHB451 ORGANIC CHEMISTRY IVC

Offered: Spring

A study of the reactions and properties of polyfunctional organic compounds as well as heterocyclic compounds, particularly naturally occurring and technically useful compounds. Rearrangement reactions and the chemistry of organometallic compounds also are studied.

Prerequisite: CHB351

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with CHB450; credit may not be retained for both.

CHB470 PHYSICAL CHEMISTRY IV

Offered: Autumn, Spring

Application of thermodynamics to phase transition and equilibria. Polymerisation processes. Homogeneous and heterogeneous catalysis. Introduction to reactors and reactor design.

Prerequisites: CHB270, CHB370

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with CHB471; credit may not be retained for both.

CHB471 PHYSICAL CHEMISTRY IVC Offered: Spring

Thermodynamics of real gases and ideal solutions; surface chemistry; industrial chemical reactors; reaction rate theory and homogeneous catalysis.

Prerequisites: CHB201, CHB371

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with CHB470, CHB476; credit may not be retained for more than one of these subjects.

CHB510 INSTRUMENTAL ANALYSIS

Offered: Autumn

Scope of trace analysis, including method reliability, accuracy, precision, sensitivity and selectivity. Atomic absorption and atomic emission - theory and instrumentation. Determination of organic structure by mass spectrometry.

Prerequisites: CHB310, CHB340, CHB440, CHB351 Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with CHB641; credit may not be retained for both.

CHB527 CHEMICAL TECHNOLOGY V Offered: Autumn, Spring

Chemical engineering process analysis and its applications to selected industrial processes. An introductory study of basic economic principles and their applications to the chemical process industries. An introduction to process plant design.

Prerequisites: CHB327, CHB427, CHB470

Credit Points: 8 Contact Hours: 4 per week

CHB530 INORGANIC CHEMISTRY V

A course of lectures and practical work dealing with organometallic chemistry; lanthanides and nuclear chemistry; inorganic rings and cages including the chemistry polyanions and metal clusters. **Prerequisite:** CHB430

Credit Points: 8 Contact Hours: 3 per week

CHB550 ORGANIC CHEMISTRY V

Offered: Autumn

A course in advanced organic chemistry which emphasises the solution of synthetic problems both in the laboratory and on the industrial scale. Topics may include choice of starting materials, major carboncarbon bond forming procedures, selectivity and control, design of industrial organic processes, significance of reaction mechanism and structive activity relationships.

Prerequisite: CHB350, CHB450

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with CHB551; credit may not be retained for both.

CHB551 ORGANIC CHEMISTRY VC

Offered: Autumn

A course in advanced organic chemistry which emphasises the solution of synthetic problems. Topics may include choice of starting materials, major carbon-carbon bond forming procedures, selectivity and control, significance of reaction mechanism, and structure activity relationships.

Prerequisite: CHB451

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with CHB550; credit may not be retained for both.

III CHB570 PHYSICAL CHEMISTRY V

Solid-liquid equilibria, ternary eutectics and industrial phase chemistry; equilibrium and dynamic electrochemistry and corrosion; kinetics of chain reactions.

Prerequisites: CHB370, CHB470

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with CHB571; credit may not be retained for both.



CHB571 PHYSICAL CHEMISTRY VC

Solid-liquid equilibria, ternary eutectics and industrial phase chemistry; equilibrium and dynamic electrochemistry; kinetics of chain reactions.

Prerequisites: CHB371, CHB471

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with CHB570; credit may not be retained for both.

CHB590 MATERIALS SCIENCE

Offered: Autumn, Spring

The nature of solids; crystalline materials; metals; non-metallic materials and organic polymers.

Prerequisites: CHB370 or CHB371, CHB470 or CHB471

Credit Points: 8 Contact Hours: 3 per week

CHB600 PROJECT

Offered: Spring

A laboratory-oriented investigation extending over one semester full-time or two semesters part-time under the supervision of a member of staff. The project will require a literature search, further study, continuing discussion with the project supervisor and a laboratory research program. The literature search, study and discussion component of CHB600 and CHB601 is aimed at developing student competence in search techniques and experience in experimental design. The laboratory program aims to develop student competence in the use of experimental techniques as a basis for problem solving. Completion of the project requires the submission of a written technical report.

Prerequisites: for CHJ129 - CHB510 or CHB527 and two of CHB530, CHB550 and CHB570 or, for ASJ226 - two of CHB601, CHB551 and CHB571 Cardit Bointe: 20 Constant Hours: 10 per usek

Credit Points: 20 Contact Hours: 10 per week

CHB610 ADVANCED ANALYSIS

Offered: Spring

Use of computers for on line data acquisition and instrument control. Microprocessor controlled instrumentation and dedicated data systems. Advanced instrumental techniques, with emphasis on trace techniques and associated sample-handling requirements. Techniques included for discussion will be electroanalytical techniques, nondestructive techniques and thermal methods.

Prerequisite: CHB510

Credit Points: 4 Contact Hours: 2 per week

CHB618 LABORATORY AUTOMATION

Offered: Spring

Current approaches to the use of computer facilities in commercial laboratories will be emphasised in the lecture course. Discussion will centre on planning to achieve an integrated network. Instrument types to include analogue output, BCD and serial digital interfaces (RS232C, IEEE, etc.). Incorporation of microprocessor controlled instruments and those instruments with dedicated data systems. Report generation and data communication systems. Polling (programmed I/O) and interrupt techniques.

Prerequisite: PHB504 Credit Points: 8 Contact Hours: 3 per week

CHB627 CHEMICAL TECHNOLOGY VI

Offered: Autumn, Spring

Measurement and control in large-scale chemical processing. An introduction to process modelling including strategies of process operations, optimisation methods, linear programming and dynamic programming. **Prerequisites:** CHB327, CHB427

Credit Points: 4 Contact Hours: 2 per week

CHB628 ENERGY TECHNOLOGY

Offered: Spring

A study of energy conversion systems and energy economics including choice of fuels, distribution costs and net energy analysis.

Prerequisite: CHB527 Co-requisite: CHB627 Credit Points: 6 Contact Hours: 3 per week

CHB631 ADVANCED INORGANIC CHEMISTRY

Offered: Spring

Selected metals: the solution and solid state chemistry of metals such as titanium, zirconium, hafnium, chromium, molybdenum and tungsten with emphasis on structures, bonding and reaction methanisms. Precious metals: the 'platinum group', silver and gold; high purity chemicals. Redox systems: hydrogen peroxide and related peroxo-compounds; dithionates and the oxo- sulphur system; sodium borohydride and other complex hydrides.

Prerequisite: CHB530

Credit Points: 8 Contact Hours: 3 per week

CHB640 CHEMISTRY VI

Offered: Spring

Celloid chemistry and rheology; Fourier transform, laser and time resolved spectroscopy; interpretative '³C NMR spectroscopy; free radical and photochemistry and the organic chemistry of sulphur and phosphorus compounds.

Prerequisites: CHB450, CHB470, CHB550, CHB570

Credit Points: 4 Contact Hours: 2 per week Note: This subject is not compatible with CHB641, CHB671; credit may not be retained for more than one of these subjects.

CHB641 ADVANCED SPECTROSCOPY

Atomic absorption and emission spectroscopy. Electron spin resonance spectroscopy. Lasers and laser spectroscopy. Mass spectrometry, particularly GC-MS. Fourier transform spectroscopy, particularly "C and multi-nuclei NMR. The role of dedicated computers in these techniques will be emphasised. **Prerequisite:** CHB340

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with CHB510, CHB640; credit may not be retained for more than one of these subjects.

CHB651 BIOLOGICAL CHEMISTRY Offered: Spring

Phosphoric acids and derivatives; addition and substitution reactions, reactivity relative to carbon esters. Condensation reactions, thiol esters, fatty acid synthesis. Hydration/ dehydration, terpene biosynthesis. Biological oxidation, heterocyclic coenzymes. Bioinorganic systems investigation - metal ion probes, inhibitor studies, model compounds. Hydrolytic enzymes. Biological redox systems with transition metal ions.

Prerequisite: CHB551

Credit Points: 8 Contact Hours: 3 per week

CHB660 INDUSTRIAL VISITS

Offered: Spring Visits to selected industries, for example, petroleum, industrial chemicals, sugar. Prerequisite: CHB501 Credit Points: 2



CHB671 SOLIDS & SURFACES

Offered: Spring

Colloid chemistry and rheology. The surface chemistry of metals, polymers and other solid materials. Surface analysis techniques including FTIR, XPS, SAM and ESCA.

Prerequisite: CHB571

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with CHB640; credit may not be retained for both,

CHB690 ADVANCED MATERIALS SCIENCE

Offered: Spring

Advanced materials analysis: fibre reinforced composite materials; advanced alloys; inorganic polymers; applied polymer science.

Prerequisite: CHB590

Credit Points: 8 Contact Hours: 3 per week

CHB691 ENVIRONMENTAL CHEMISTRY

Offered: Spring

The nature and composition of natural and polluted waters; metal ions, gases, redox equilibria complexation and microbial transformation of chemicals in water; water pollution and trace-level substances in water. Environmental chemistry of soils; acid-base equilibria and ion-exchange; chemicals in soil. The nature and composition of the atmosphere; chemical and photochemical reactions in the atmosphere; the oxides of carbon, sulphur and nitrogen in the atmosphere; organic pollutants and photochemical smog; particulate matter. Water and atmospheric monitoring, Prerequisites: CHB551, CHB571

Credit Points: 8 Contact Hours: 3 per week

CHN110 ANALYTICAL CHEMISTRY I

Offered: Autumn

General introduction to analytical chemistry, literature, including computer-oriented data bases. The analytical process, method selection, sampling, method validation, treatment of results, quality control, quality assurance, report presentation. Safety in the laboratory. Packaging, storage, transport and disposal of chemical materials. Instrumental methods for separation and identification: gas chromatography, including glass capillary. Liquid chromatography including ion exchange chromatography. Data handling systems. Electrophoresis. Mass spectrometry and GC/MS plus data system.

Credit Points: 18 Contact Hours: 6 per week

CHN210 ANALYTICAL CHEMISTRY II

Offered: Spring

This unit provides a theoretical background in spectroscopy and an appreciation of the applications, limitations and practice of modern methods of spectrochemical analysis. Topics include molecular spectrophotometry, atomic absorption and atomic emission, X-ray fluorescence and related techniques, nuclear magnetic resonance spectroscopy and electron spin resonance spectroscopy.

Prerequisite: CHN110

Credit Points: 18 Contact Hours: 6 per week

CHN310 ANALYTICAL CHEMISTRY III Offered: Autumn

A study of modern electrochemical analytical techniques and an advanced level course in electrodics. Principles of interfacial electrochemistry, the ion double layer, electro- capillarity, electrode kinetics, evaluation of kinetic parameters, interfacial electrochemistry in chemical analysis. Thermal techniques: thermogravimetry, differential thermal analysis, differential scanning calorimetry, enthalpimetry, pyrolysis.

Prerequisite: CHN210

Credit Points: 15 Contact Hours: 5 per week

CHN345 LABORATORY MANAGEMENT Offered: Autumn

The unit introduces concepts of modern management appropriate to an analytical laboratory. The functions of management. The role of the laboratory manager, Analysis of management efficiency, decision making, management techniques for decision making. Installation of laboratory equipment, selection and maintenance of laboratory equipment, calibration of equipment and apparatus, replacement policy. Purchasing and financial control.

Credit Points: 3 Contact Hours: 1 per week

🌃 CHN410 ANALYTICAL CHEMISTRY IV

Offered: Spring

Specialised application of analytical techniques. Trace analysis: laboratory design and practice, sample collection, pretreatment and handling. Consideration and selection of techniques and methods. Accuracy, precision, sensitivity, selectivity, reliability. Forensic chemistry: special requirements of a forensic science laboratory - sample handling, unequivocable identification, comparative procedures, security. Consideration of typical examples of forensic analysis. Outline of the Queensland legal system, the expert witness, pretrial preparation facts vs. opinions. Prerequisite: CHN310

Credit Points: 15 Contact Hours: 5 per week

CHN445 LABORATORY AUTOMATION

Offered: Spring

This unit is designed to give the student 'hands on' experience with on-line data acquisition and instrument control. It includes instruction in a language appropriate to the computer system to be used. Interfacing techniques. Serial and parallel data transmission. Interrupt facilities. Domain conversion and real time data acquisition and display. Digital techniques for signal smoothing. Peak recognition techniques. Analysis of microprocessor applications in analytical instrumentation.

Prerequisite: PHN350

Credit Points: 9 Contact Hours: 3 per week

CHN510 ANALYTICAL CHEMISTRY V Offered: Autumn, Spring

This four semester unit includes some lecture, semiпаг and workshop activities, but the research/development project represents the major activity

Prerequisite: CHN410, CHN345, MAN255 Credit Points: 24 Contact Hours: 8 per week

CHP150 BIOCHEMICAL ENGINEERING Offered: Spring

The application of organisms, systems and processes to productive level activities. Specific areas are in fermentation, bioprocessing and enzyme technology. Topics include: fermentation processes; microbial physiology and environmental factors in processing operations; fermentation kinetics and modelling; aeration and agitation; sterilisation, bio-reactors and scale-up. It also covers enzymology; large-scale extraction and purification of enzymes; immobilised enzymes; application of enzymes; downstream processing; and bio-process economies.

Credit Points: 10 Contact Hours: 6 per week



CHP700 PROJECT

Offered: Full Year

All students undertaking Honours are required to select and undertake, in consultation with a supervisor, a substantial project in an appropriate area. Each project will be assessed on the basis of an extensive written report and an oral presentation. Credit Points: 40

CMA133 COMMUNICATION TECHNIQUES

Offered: Autumn, Spring

An introduction to the techniques of technical writing appropriate to applied science vocations. Technical report writing, writing for non-technical audiences, media liaison, business communications. Application of communication principles in technical writing. Application of communication principles to non-written communications. Individual and group speaking. Speech writing. Oral delivery of technical papers. Formal meeting procedure. Conferences, forums, panels, interviews, symposia, debates. Use of film in scientific communication.

Credit Points: 4 Contact Hours: 2 per week

CMB012 SPEECH COMMUNICATION

The major aim of the course is to develop in the student the ability and confidence to successfully communicate in speaking in contemporary business and professional situations. The specific objectives are to develop an understanding of the concepts and skills required for effective participation in performance situations, such as: radio and television broadcasting, creative presentations to clients, creative presentations to an audience, supportive bases for these methods of communication will include language and non-verbal aspects, listening and delivery and staging and use of visual aids.

Credit Points: 12 Contact Hours: 3 per week

CMB014 WRITING & COMMUNICATION THEORY

The subject provides a broad overview of the contemporary study of communication by introducing students to a wide range of theories, methods, and approaches. In addition, the subject deals with the ways in which different approaches may be applied to particular communicative situations by investigating the principles underlying interpersonal, small group, organisational, and mass communication situations. Emphasis is placed on mass communication theory and practice, with particular attention to the relevance of communication theory to professional practice. Theoretical approaches dealt with include rhetorical, process, interactive, and cultural studies perspectives. Credit Points: 12 Contact Hours: 4 per week

CMB104 PROFESSIONAL COMMUNICATION

Offered: Autumn

Communicating successfully in writing and orally in contemporary professional situations. An understanding of the concepts and skills required for effective practices in formal reporting and persuasive writing, oral reporting and persuasive speaking, group decision making and meeting procedure, and leadership and participation.

Credit Points: 9 Contact Hours: 3 per week

CMB105 BUSINESS COMMUNICATION

To achieve standards of preparation and presentation in formal communication which are acceptable in contemporary organisations. It encompasses an introduction to the techniques and objectives of communication in formal contexts. The processes of oral and written communication and their application within organisational settings to interviewing, presentational speaking, research papers, reports and correspondence.

Credit Points: 12 Contact Hours: 3 per week

CMB106 PROFESSIONAL COMMUNICATION

Offered: Autumn

Communicating successfully in writing and orally in contemporary professional situations. An understanding of the concepts and skills required for effective practices in formal reporting and persuasive writing, oral reporting and persuasive speaking, group decision making and meeting procedure, and leadership and participation.

Credit Points: 6 Contact Hours: 3 per week

CMB108 ENGLISH FOR TECHNOLOGISTS

Offered: Spring

A series of lectures and tutorials aimed at improving the student's ability to write sound paragraphs comprising economical sentences acceptable in grammar, syntax, punctuation and idiom.

Credit Points: 6 Contact Hours: 3 per week

CMB111 SOCIOLOGY

To develop an awareness of the impact of the social environment of human behaviour and to provide a contextual understanding of society for practice in the communication professions. Students will be introduced to some of the main theories which have been developed to gain insight into the operation of society, and to the basic concepts employed in those theories. Some of the topics to be addressed include such topics as culture and sub-cultures; the family; stratification; groups and communities; formal organisations; social deviance; social change.

Credit Points: 12 Contact Hours: 3 per week

CMB116 WRITING FOR DESIGNERS I Offered: Autumn

The writing process; style, accuracy and simplicity in writing; the editing process.

Credit Points: 4 Contact Hours: 2 per week

CMB117 WRITING FOR DESIGNERS II Offered: Spring

Writing for the design professional; review of organisation and mechanics; types, formats, styles and review of professional documents; problems of technical style, bibliographic conventions and use of graphics.

Credit Points: 4 Contact Hours: 2 per week

CMB119 SOCIOLOGY FOR PROFESSIONALS

To develop an awareness of the impact of the social environment of human behaviour and to provide a contextual understanding of society for practice in professional fields. Students will be introduced to some of the main theories which have been developed to gain insight into the operation of society, and to the basic concepts employed in those theories. Some of the topics to be addressed include: culture and subcultures; the family; stratification; groups and communities; formal organisations; social deviance; social change.

Credit Points: 12 Contact Hours: 3 per week



CMB134 COMMUNICATION

Offered: Autumn

This subject is designed to train students to communicate effectively with the public and with their peers by developing the skills of reading and writing and spoken communication with special reference to professional and administrative contexts.

Topics covered include the library paper; preparation and presentation of research papers; business correspondence: objectives, format, composition; report writing presentation, editing; and speech preparation. **Credit Points: 4** Contact Hours: 2 per week

CMB135 COMMUNICATION FOR ENGINEERS

Offered: Autumn

Development of confidence in the dissemination of knowledge, skills and information to both technical and nontechnical associates via written and oral communication resources. Oral presentation techniques. Effective written communication skills.

Prerequisite: CMB108

Credit Points: 2 Contact Hours: 1 per week

CMB136 TECHNICAL WRITING

Offered: Autumn

The prose, mechanical and graphical elements in reports, proposals, instructions and other technical literature are analysed and put into practice. The subject includes the preparation of routine correspondence, and presents modern developments in organisational communications.

Credit Points: 2 Contact Hours: 1 per week

CMB161 LITERATURE & COMMUNICATION

This course develops skills in written communication, and also develops critical and analytical skills in dealing with a variety of communicative and textual forms. Students will acquire an understanding of various forms of written communication, specifically, literary forms such as liction and poetry, and performative, such as drama. This will entail understanding the theory behind such forms; students will therefore be introduced to literary theory as well as language and communication theory. The subject provides a theoretical background for students wishing to take clectives in the Humanities area in later semesters. **Co-requisite:** CMB014

Credit Points: 12 Contact Hours: 3 per week

CMB163 INTRODUCTION TO AUDIO-VISUAL COMMUNICATION

Introduction to the theory and practice of audio-visual communication, media consciousness, definition of operational objectives, analysis of audience characteristics; development of concept, selection of appropriate mediated form, basic scriptwriting; equipment, quality, and cost effectiveness; selection and operation of appropriate equipment; familiarity with still camera, audio and video equipment; techniques for slide-tape and video production. Production of a sound synchronised slide-tape programme.

Credit Points: 12 Contact Hours: 3 per week

CMB191 FUNDAMENTALS OF PHOTOGRAPHY

Offered: Autumn, Spring

Historical development of the photographic arts, role of the photographer in society, the principles of visual perception and design, photography as both art and craft; display photography, news photography, photo layout and design; the still camera, developing, printing and enlarging; creative use of camera and darkroom. Fortnightly photographic assignments. Portfolio.

Credit Points: 12 Contact Hours: 3 per week

CMB211 COMMUNICATION RESEARCH

This subject aims to provide students with an understanding of qualitative and quantitative research methods used in the communication professions. The course will examine the basic assumptions and strategies of social research. Topics will include focus group interviews; questionnaire construction and sample surveys; experimental design.

Co-requisite: CMB111, CMB014

Credit Points: 12 Contact Hours: 3 per week

CMB212 AUSTRALIAN STUDIES

This subject provides the student with a greater awareness of the Australian social history. It examines the construction of Australian identity since white settlement. **Prerequisite:** CMB111 or 5 subjects B.Bus degree program

Credit Points: 12 Contact Hours: 3 per week

CMB220 SPEECH & DRAMA

Students will be given a course of relaxation, vocal and expression exercises to increase their control of body language and vocal presentation. They will study the communication of an age by looking at the manners, values and attitudes of the culture reflected in its drama. Particular attention will be paid to twentieth century drama and its reflection of the communication of our society. Students' perception, especially auditory awareness and visual perspicacity will be extended by the use of video recording of their work. This subject has an equal balance of theoretical and practical components.

Prerequisite: CMB012 or CMB131

Credit Points: 12 Contact Hours: 3 per week

CMB241 INTRODUCTION TO ADVERTISING

This subject serves as an introduction to later subjects in the Communication course and is a prerequisite for further advertising subjects. It is also a useful elective subject for management and accounting students. Introduction to Advertising presents students with an overview of the advertising industry. It traverses the inter-relationship of the institutions of advertising the advertisers, the advertising agencies and the media. It details methods of determining advertising budgets, establishing target audiences, interpreting audience ratings and circulation figures and enables students to gain a preliminary understanding of the creative functions of the advertising industry. It also shows the ethical and legal side of advertising and its important role in today's society.

Prerequisite/Co-requisite: MNB253

Credit Points: 12 Contact Hours: 3 per week

CMB291 AUSTRALIAN LITERATURE & FILM

A survey of the development of Australian literature and lilm with an emphasis on modern works. The relationship between literary and cinematic treatment of particular themes and situations will be examined, with special attention to translation of works from literature to film.

Prerequisite: CMB212

Credit Points: 12 Contact Hours: 3 per week



CMB311 CONTEMPORARY SOCIAL ISSUES

A study of social trends and contemporary issues in Australian society from a sociological perspective. Media treatment and presentation of issues, in the form of news, current affairs and documentaries, is examined and discussed and individual, community and governmental responses analysed. Topics vary according to social events, but include such subjects as family crises, environmental issues, deviance, minority groups, health and welfare concerns, leisure and entertainment.

Prerequisite: CMB111

Credit Points: 12 Contact Hours: 3 per week

CMB321 COMMUNICATION IN SMALL GROUPS

The application of communication theory and the refinement of practical speech communication skills. Business and media interviewing, role-playing, and simulated group problem-solving will be practised and analysed. Topics relating to Public Relations, Advertising and Journalism will form a base for these projects. Student's perception, especially auditory awareness and visual perspicacity will be extended by the use of video recording of their work.

Prerequisite: Three communication degree subjects including CMB012 or CMB131

Credit Points: 12 Contact Hours: 3 per week

CMB351 COMMUNITY RELATIONS

Specialist public relations subject which examines strategies used to relate an institution or individual to communities through community relations programs; fund raising and special events; and the setting up of community groups. The subject is designed to increase intellectual depth of understanding as well as practical knowledge of a significant and growing area of public relations. Practical work will be undertaken in planning community relations programs, fund raising campaigns and special events. Presentations of their programs are made by student groups.

Prerequisite/Co-requisite: CMB651

Credit Points: 12 Contact Hours: 3 per week

CMB359 NEWSWRITING

Students, through lectures and workshops, learn how to evaluate and select information to write news stories. Students are thus exposed to journalistic style, grammar, spelling, punctuation and syntax.

Credit Points: 12 Contact Hours: 3 per week

CMB360 REPORTING PRINCIPLES

Students go into the community to cover rounds and news stories. They receive individual attention from tutors in weekly conferences in which each story is critiqued. Students rewrite their stories to bring them up to publishable standard. All stories are made available for possible publication in the School newspaper. Prerequisite: CMB359

Credit Points: 12 Contact Hours: 3 per week

CMB363 ADVERTISING COPYWRITING -PRINT

This subject is an important base for further study in advertising. Students are introduced to the principles, theory and practice relating to the creation of advertisements. The role of the copywriter in the advertising process is examined as is the relationship between copy and art. Practical work involves the writing, setting and presentation of copy for print advertising for manufacturers, service industries and the retail sector. Case briefs for assignments are presented to students by advertisers or advertising agency executives. Finished presentations are then made to these specialists.

Prerequisite: CMB241 Credit Points: 12 Contact Hours: 3 per week

CMB364 ADVERTISING COPYWRITING -ELECTRONIC

Students continue their studies of the principles and practice of copywriting. Practical work concentrates on the electronic media. This includes the writing and production of commercials for both radio and television and other industry requirements.

Prerequisite: CMB363 and CMB464

Credit Points: 12 Contact Hours: 3 per week

CMB371 SUB-EDITING & LAYOUT

An examination of the principal functions of editors and sub-editors in the print media. An introduction to sub-editing. An examination of the theories of newspaper and magazine design and of current and likely future practices. Practice in basic sub-editing, including on-line subbing of Australian Associated Press stories, introduction to Desktop Publishing, design and layout. The class produces a School newspaper. Students are expected to devote 6 hours per week to assigned sub-editing and layout activities. **Prerequisite:** CMB571 and 80 wpm Teeline

Credit Points: 12 Contact Hours: 3 per week

CMB422 PROFESSIONAL SPEECHWRITING

The context for speeches - environmental, relational and linguistic; issues for targeting speeches; rhotorical principles for developing personal language style; methods of interpreting and evaluating speeches; study of exemplars and writing of various types of speeches occasional addresses; informative speeches; persuasive speeches; modem campaign speeches; using speeches for advance release and promotional purposes; reports on speech writing projects.

Prerequisite: CMB552

Credit Points: 12 Contact Hours: 3 per week

CMB423 AUSTRALIAN MEDIA INSTITUTIONS

The aim of the course is to introduce students to the major media institutions within Australia. This will involve examination of industry development and structure, and industry practices in the press, television, advertising and radio. Outside specialists will be used to augment the expertise of Communications staff. Prerequisite: CMB011

Credit Points: 12 Contact Hours: 3 per week

CMB441 RETAIL ADVERTISING

Topics of study include the examination and study of the advertising objectives, requirements, strategies and practices of the different segments of the retail industry. These are compared and contrasted with the same aspects of national advertising. Workshop sessions and assignments accent practical work on retail advertising.

Prerequisite: CMB363, CMB364 or MNB491 Credit Points: 12 Contact Hours: 3 per week

CMB442 MOTIVATION AND ETHICS IN ADVERTISING

The subject will provide an introduction to those areas of psychology particularly appropriate to advertising. It will relate these to classical and modern theories of the motivational aspects of advertising. The ethical standards of the Advertising Institute of Australia, the Australian Association of National Advertisers, the



Advertising Federation of Australia and the Direct Marketing Association will be examined and compared with motivational practice and requirements. Emphasis will be placed on the examination of current campaigns against motivational and ethical backgrounds.

Prerequisite: CMB241

Credit Points: 12 Contact Hours: 3 per week

CMB451 INDUSTRIAL PRESS

An examination of the requirements for communication with employees, shareholders, customers and other specific publics through specialist publications. Analysis of requirements for house magazines, newspapers and newsletters, customer brochures, pamphlets and newsletters, and financial reports to shareholders and staff. Use desk-top publishing and examination of new technology.

Prerequisite: CMB552

Credit Points: 12 Contact Hours: 3 per week

CMB452 INTRODUCTION TO PUBLIC RELATIONS

An introduction to the concept and practice of public relations. The subject surveys the history, theories, models, and management of public relations activities and processes. Modes of communication are analysed in relationship to reaching different levels of society. A number of guest practitioners discuss their programs and areas of specialisation, such as community, internal, media, and government relations. Credit Points: 12 Contact Hours: 3 per week

CMB461 CREATIVE WRITING

Creative writing is a highly skilled form of communication, involving the communication of ideas and values within a social framework. Students will examine the creative writing process from first draft to final product, with particular emphasis on the short story form. The problems of publishing and marketing as a professional writer will be considered.

Prerequisite: CMB161

Credit Points: 12 Contact Hours: 3 per week

CMB462 MAGAZINE & FEATURE WRITING

Study of reporting and writing techniques for magazine articles and newspaper human interest stories; analysis of content and style of publications; markets for publication; practical writing and production assignments.

Prerequisite: CMB360 and 40 w.p.m. Teeline Credit Points: 12 Contact Hours: 3 per week

CMB463 MODERN LITERATURE & FILM IN SOCIETY

This course will offer an integrated study of contemporary literature and film and show how both media provide an insight into topical issues of the day. Various critical approaches to literary and filmic texts will be analysed and the concepts of genre, authorship and structure will be considered.

Prerequisite: CMB161

Credit Points: 12 Contact Hours: 3 per week

CMB464 VIDEO PRODUCTION TECHNIQUES

Analysis of audio-visual media in terms of markets served and cost effectiveness; the technology of video. Principles of production - conversion of script to finished product; introduction to budgeting and production management, hiring and casting. Principles and practice of directing and editing; pictorial composition, lighting, colour, camera; sound and sound recording; animation and graphics. Production of a colour video program.

Prerequisite: CMB163

Credit Points: 12 Contact Hours: 3 per week

CMB465 LITERATURE, LANGUAGE & SOCIETY

Novels will be considered as both influenced by, and influencing the society in which they are produced. Students will be shown that literature can provide a detailed and complex analysis of society and ideologies. As with the prerequisite subject Literature and Composition, emphasis will be placed on critical and analytical skills through close textual analysis, applying contemporary literary and linguistic theory. **Prerequisite:** CMB 161

Credit Points: 12 Contact Hours: 3 per week

OPINION

The processes of public opinion are studied from the perspective of sociological theory. Within this framework, the operation of the media will be examined in some detail. Specific topics to be considered include opinion polling in Australia: the association between demographic characteristics and opinions; the role of the media in the 'social construction of reality'; the conceptual and operational relationships between attitudes and opinions; cognitive dissonance and communication strategies for opinion change; the role of uninstitutionalised forms of community agitation in influencing public opinion and public policy; social stability and social change. Students analyse opinion poll data from a number of sources using statistical software on a main-frame computer.

Prerequisite: CMB211

Credit Points: 12 Contact Hours: 3 per week

CMB541 MEDIA STRATEGY

Topics of study include the following: costing and scheduling media, qualitative and quantitive factors affecting media selection and use, market targeting, rescarching the media plan, planning media strategy, co-ordinating media, media options, concepts of media decision making, media exposure, media comparisons, media trends, media and the computer. **Prerequisite:** CMB241 or MNB253

Credit Points: 12 Contact Hours: 3 per week

CMB542 ADVERTISING MANAGEMENT

The purpose of the subject is to provide the students with an understanding of the managerial side of the advertising profession, and to equip them with the tools they need to make executive decisions in advertising. Students will examine the process of setting appropriate advertising objectives, designing a program of advertising research, the social environment and regulation of advertising, managerial participation in the creative and media planning process, account management in an advertising agency, clientcompany management and the advertising process, competing theoretical concepts of 'how advertising works'.

Prerequisite: CMB241 or CMP125 Credit Points: 12 Contact Hours: 3 per week

CMB543 ADVANCED ADVERTISING

This subject will build upon the knowledge and skills gained by students in either Advertising Copywriting or Media Strategy and build them to be fully operative at copywriter or media planner level. While theoreti-



cal perspectives will be expanded, there will be a heavy emphasis on practical work.

Prerequisite: CMB363, CMB364 or CMB541

Credit Points: 12 Contact Hours: 3 per week

CMB544 DIRECT RESPONSE ADVERTISING

This subject will cover the underlying principles and practice of direct response advertising in its various forms. Ethical considerations will be considered against a background of Australian societal norms. Skills in the appropriate areas will be taught and practised. Practitioners will lecture on current procedures and brief students on assignments, which will be presented to them. There will be a considerable emphasis on practical work.

Credit Points: 12 Contact Hours: 3 per week

CMB552 PUBLICITY & PROMOTION (PRINT)

Focus is on communication with media. The skills and knowledge necessary to deal with, write and produce materials for print media are developed. Guest speakers in mass media present techniques for working with and in newspapers, and magazines. Practitioners provide information on special events, community relations, political campaigns, and promotions, which students can apply to field assignments. Prerequisites/Co-requisites: CMB452, CMB359 Credit Points: 12 Contact Hours: 3 per week

CMB553 PUBLICITY & PROMOTION (ELECTRONIC)

Concentrates on development of production skills in video as they apply to public relations in organisations. Students will produce a complex video news magazine for a elient organisation. This includes scripting, presenting, studio management, special effects, graphics, field operation of video equipment and video editing. Techniques for producing community service announcements are also taught. **Prerequisite:** CMB552, CMB464

Credit Points: 12 Contact Hours: 3 per week

CMB561 FILM & TELEVISION SCRIPT WRITING

Wide scope and approach to writing through analysis of such forms as features, documentaries, and drama; depth approach to writing through analysis of audiences and the industry; corporate video, documentary, drama; analysis of scripts and script requirements in contemporary markets. Students will be required to write a major script or script treatment.

Prerequisite: 12 subjects in a degree program Credit Points: 12 Contact Hours: 3 per week

CMB562 MEDIA TEXT ANALYSIS

The aim of the course is to enable students to better understand the nature of film and television as forms of communication. It uses the general range of cultural studies approaches structuralism, psychoanalysis, linguistics, film theory and narrative theory. It examines media productions as 'texts', subjecting them to close analysis in order to read from them possible meanings for their audiences.

Prerequisite: CMB423

Credit Points: 12 Contact Hours: 3 per week

CMB571 RADIO/TELEVISION JOURNALISM I

The purpose of this subject is to train students to explore theoretical problems related to radio and television news and to provide them with practical experience in writing/production/reading broadcast news. Students will study the theoretical aspects of broadcast news writing and production. They will man the 4EB news throughout the semester and the following between-semester months. Students will prepare television reports and present them in class for criticism. Students will be required to develop an understanding of the workings of the radio broadcast equipment. They will assist in the production of current affairs programs for 4EB.

Prerequisite: ČMB462 and 60 wpm Tecline Credit Points: 12 Contact Hours: 3 per week

CMB572 COMPARATIVE JOURNALISM

Development of national press systems. The journalist as a mass communicator. Functions of the press in different societies. Foreign press systems. International and inter-cultural communication.

Prerequisite: 16 communication degree subjects Credit Points: 12 Contact Hours: 3 per week

CMB592 FILM & VIDEO TAPE EDITING

Orientation to film and television editing; the place of editing in the production; the role of the editor; affective aspects; the scope and limits of creative editing; correlation of image, sound, music, pace, and tone in the total design; editing in workshops throughout the senester of materials provided on 16mm film and video tape.

Prerequisite: CMB464

Credit Points: 12 Contact Hours: 3 per week

CMB622 PROFESSIONAL COMMUNICATION PRACTICE

The aim of this elective subject will be to provide the communication student with an opportunity to observe, and gain insight into, the applications of communication theory to communication practice. The student will be placed with an approved employer. The lecturer in charge of the subject will obtain reports from the student at regular intervals. The student will be required to complete a progressive assessment programme. The student's result will be determined on the basis of reports, continuous assessment and the employer's report.

Prerequisite: EITHER CMB363/CMB364 and CMB542 and CMB541 OR CMB371 or CMB672 OR CMB451 and CMB553

Credit Points: 12 Contact Hours: 3 per week

CMB641 ADVERTISING CAMPAIGNS

Students will be briefed to prepare and document three advertising campaigns. The subjects of these campaigns will be drawn from actual industry marketing situations.

Prerequisite: CMB542

Credit Points: 12 Contact Hours: 3 per week

CMB651 ADVANCED PUBLIC RELATIONS

An advanced approach to public relations submissions by means of the case study method. The subject provides practical experience in problem solving, strategic planning, analysis, and implementation of public relations programs. Guest practitioners present problems they deal with in government and financial relations, from which students derive underlying principles and devise model plans that offer solutions to these societal problems.

Prerequisite/Co-requisite: CMB451

Credit Points: 12 Contact Hours: 3 per week

CMB662 AUDIO-VISUAL SEMINAR

Analysis of the process and effects of mediated communication; budgeting and production management;



effective presentation methods; innovation and special media events; advanced production techniques; working as a part of a crew to produce a significant film or television production. Students are required to discuss script preparation in consultation with the lecturer prior to the commencement of the semester. Prerequisite: CMB464

Credit Points: 12 Contact Hours: 3 per week

CMB666 PUBLIC RELATIONS **CONSULTING & MANAGEMENT**

Covers operation of a consultancy and the management of a public relations department in various types of organisations. Guest speakers in specialised areas provide cases on budgeting, staff development, client relations, computer utilisation, management liaison, and a oup campaigns.

quisite: CMB351 or CMB651 \mathbf{P}

Credit Points: 12 Contact Hours: 3 per week

CMB671 PUBLIC AFFAIRS REPORTING

An advanced reporting subject dealing with four main areas of news coverage finance, industrial, government and social issues. Students do in-depth reporting on the facts behind financial, industrial, political, scientific and social issues. Students undertake practical assignments and participate in publications and broadcasts. Prerequisite: CMB371

Credit Points: 12 Contact Hours: 3 per week

CMB672 RADIO/TELEVISION JOURNALISM II

In this subject students will explore the theory underlying current affairs and TV news broadcasting. They will consider all aspects of current affairs and TV news production, and at the same timeproduce current affairs programs for radio throughout the semester and on roster between semesters. The radio programs will be aired on 4EB. Students will also read news and do more advanced interviewing segments of the news on 4EB during the semester and on roster between semesters

Prerequisite: CMB571 and 80 wpm Teeline Credit Points: 12 Contact Hours: 3 per week

CMB673 JOURNALISM ETHICS & ISSUES

This is a seminar subject in which lectures serve as starting points for discussion and panels. Students are challenged on journalistic practices and are asked to make decisions. Experts and professionals are invited to take part in seminars and panel discussions. Students produce a School newspaper and radio news and current affairs programs. Prerequisite: CMB371 and CMB672

Credit Points: 12 Contact Hours: 3 per week

CMN709 CONCEPTS IN COMMUNICATION

Prepares students in the foundation theories and perspectives of human communication, and in the application to modern professional practice, in order to proceed to advanced theoretical study.

Credit Points: 12 Contact Hours: 3 per week

CMN710 Mass Communication A

An advanced exploration of the theories of mass communication, as a process, and its impact in society. It studies the role of mass media, and their relationships from one to another, to major institutions and to individuals and groups. It gives a theoretical basis for research in mass communication, including the structure, process and effects of mass media.

Credit Points: 12 Contact Hours: 3 per week

CMN711 MASS COMMUNICATION B

Examines further the relationship between mass media and society through analysis of the practices, conventions and forms of mass communication, especially film and television. It relates the impact of mass media upon society to cultural formations such as ideology and politics. This subject provides additional theoretical bases for analysis of mass communication messages and reception, through the application of discourse analysis involving semiotic, structural and signification theories.

Contact Hours: 3 per week Credit Points: 12

CMN720 COMMUNICATION EVALUATION

Introduces students to the conceptual skills of communication evaluation at an advanced level. It provides the knowledge and skills in both quantitative and qualitative methods. It is intended to prepare people who will commission, supervise and use search and research, not as an end in itself but as a means to solving communication problems.

Credit Points: 12 Contact Hours: 3 per week

CMN723 SEMINAR IN COMMUNICATION RESEARCH

Allows advanced students to undertake research in order to develop special expertise in a selected methodology, including specific methods and techniques, appropriate to each student's own research interests. It is designed for advanced study in the methods of interpretive or empirical research, quantitative or qualitative. Students may undertake one or more research projects under the direction of their supervisor. They progressively present their work in a seminar of advanced students for review. It can be used to advance a thesis or project,

Credit Points: 12 Contact Hours: 3 per week

CMN810 COMMUNICATION & SOCIETY

On completing this subject the student should have an appreciation of the social trends and issues which influence the operation of mass communication. Students will study a diversity of social environments which are the setting for communication technology and policy. Students will be assisted in investigating specific fields of interest. Suggested topics may include: social impact of communication technology (home computer, video, access radio, cable television, Aussat); patterns of personal communication in networks and neighbourhoods; cross-cultural communication, multiculturalism and the media; social change in industrial and developing countries; media presentation and the social construction of reality; audience research in mass media and live, performing arts; and communication in urban and rural setting.

Credit Points: 12 Contact Hours: 3 per week

CMN811 COMMUNICATION & CULTURE

Deals primarily with written forms of discourse in mass culture. Topics include: the concept of mass culture and cultural formations; the growth of written mass culture/popular literature; the relationship between language and reality (reality formed by language, rather than vice versa); the modern debate about mass culture versus 'high' culture literary journalism; mass culture and ideology (fictional and non-fictional prose, scripts). Theory will be related to textual analysis. This subject follows on from Mass Communication B.

Credit Points: 12 Contact Hours: 3 per week



CMN813 COMMUNICATION STRATEGIES

A study of putting communication theory into practice. Students may take policy and plans formed either in the subject Communication Policy and Planning, or elsewhere, and consider how to produce the appropriate change. The ethics of persuasion and the problems of co-operation are explored. Students must take into account the social implications of producing change, the role of the change agent and ways to monitor the effects in Australian as well as developing societies. Alternative perspectives for strategic thinking will be compared for application in the environments of marketing, advertising, editorial journalism, public relations, public affairs, public information.

Credit Points: 12 Contact Hours: 3 per week

CMN814 MODERN COMMUNICATION TECHNOLOGIES

This subject is designed to give students who are non-engineers a working understanding of modern and emerging communication technologies and their use by individuals and social institutions, with regard for their social consequences. Particularly, it aims to investigate the access to these technologies by citizens and to give students basic technological literacy. It overviews the state of the art and studies current and future applications, basic models and theories, the common technical terms, the economics and the fundamental electronics behind the research and practice of telecommunications, other hardware delivery systems and information technology.

Credit Points: 12 Contact Hours: 3 per week

CMN821 ADVANCED ORGANISATIONAL COMMUNICATION

A seminar with a focus on how people relate to each other in modern organisational settings, from small businesses to multi-national organisations in the public and private sector. It addresses communication up, down and across the organisation, among divisions and work units, among different professional and vocational specialties and within work teams. It has a problemsolving, interdisciplinary approach with reference to, at least, social psychology, sociology, culture theory, systems thinking and network analysis.

Credit Points: 12 Contact Hours: 3 per week

CMN823 CURRENT ISSUES IN COMMUNICATION

Allows students, after an exposure to the diverse field of study in human communication, to review aspects of this field in depth. It investigates current issues in the theory and practice of human communication. Student and lecturing staff use the various perspectives, theories and applications explored in the program.

Credit Points: 12 Contact Hours: 3 per week

CMN824 COMMUNICATION POLICY & PLANNING

Introduces students to the principles and processes of policy development and planning for communication delivery systems, such as a telecommunications system, national satellite broadcasting service or a television network, and for planning and regulating authorities. Students become familiar with the complex range of social environments, stakeholders, issues and options, and compare industrial and developing countries. It critically examines case studies of communication policy and planning. Credit Points: 12 Contact Hours: 3 per week

CMN825 AUSTRALIAN COMMUNICATION CONTEXTS

This subject is designed to analyse specific aspects of the interaction between mass media and the Australian cultural context. It will approach this relationship through cultural studies methodologies discourse analysis, semiotics, structuralism and theories of cultural production. Much of the theoretical content will follow on from Mass Communication B and Communication and Culture. Following examination of various theoretical and methodological approaches to the analysis of the contexts in which mass communication occurs, students will prepare a case study of a substantial media campaign involving representations of national identity.

Credit Points: 12 Contact Hours: 3 per week

CMN830 SEMINAR IN COMMUNICATION

A series of seminars comprising postgraduate students, teaching staff, and variously, visiting scholars and practitioners, for the purpose of sharing knowledge of human communication across the range of perspectives, theories, research and applications. It allows students to pursue, review and compare their own personal interests and readings. Credit Points: 12

CMN831 INDIVIDUAL RESEARCH

Permits students to conduct independent research in an area not covered by a substantive subject in their program. It is an opportunity to study an area of personal interest or use it as a pilot study for a thesis or project.

Credit Points: 12

CMN910 AND CMN911 DISSERTATION

Taken in conjunction with, or subsequent to, a subject in the CMN800-899 series; normally a 10,000 word investigation of a communication concept using secondary research relevant to that subject. Prerequisite: CMN710, CMN711, CMN720

Credit Points: 24 (each)

CMN950 THESIS/PROJECT

Students may complete a thesis or a project. A thesis is a scholarly work which provides an opportunity to combine an appropriate theory or perspective, and appropriate research methodology to examine a significant communication problem or issue. Main text will not normally exceed 20,000 words. A project is an approved program of substantive work leading to a report, communication program, printed or audio-visual production, disc or some other product in which theories of communication are applied to some problem or issue.

Credit Points: 24 per semester

CMP007 COMMUNICATION CONCEPTS

Prepares students in the foundation theories and perspectives of human communication, and in the application to modern professional practice, in order to proceed to advanced theoretical study.

Credit Points: 12 Contact Hours: 3 per week

CMP352 FUNDRAISING PRINCIPLES

This subject is designed to cover the fundamentals of fundraising. It starts with the preparation of the case statement, introduces planning methods, and then moves through the various techniques of fundraising. Introductory segments on public relations, adventising, marketing and management also form part of this subject. Major topics include philosophy of fundrais-



ing, its role in society, organising annual funds, major gift and capital campaigns, planned giving, researching and establishing prospect bases, procedures of solicitation, team building of boards and volunteers, role of foundations, introductory principles of public relations, advertising, marketing and management. Credit Points: 12 Contact Hours: 3 per week

CMP421 NATIONAL MEDIA INSTITUTIONS

The aim of this course is to introduce students to the major media institutions within Australia. The organisation of the subject matter falls into two main categories. Industry development and structure: this includes ownership of radio, television, newspapers, and advertising agencies; networking; government control and regulation; intra-industry organisations such as FACTS and the unions, technological developments, future changes in technology. Industry practices: these are highly specialised, and some use will be made of media professionals. Topics covered could include the presentation of news, the difference between radio and television advertising, TV programming schedules, radio's response to FM and V, the impact of satellites. Also important here are the roles played by the interaction between an industry and its audiences, audience research and ratings. Prerequisite: CMB161

Credit Points: 12 Contact Hours: 3 per week

CMP562 ADVANCED TEXT ANALYSIS

This unit focuses on the products of the media, particularly film and television. The aim of the course is to enable students to better understand the nature of film and television as forms of communication. It uses the general range of cultural studies approaches: semiotics, structuralism, psychoanalytic theory, linguistics, film theory, and narrative theory. It examines media productions as 'texts', subjecting them to close analysis in order to read from them possible meanings for their audiences. The aim is for this methodology to complement more empirical approaches undertaken elsewhere in the course. Audiences, in particular, become key concepts for analysis. Unlike other approaches to the audience, this subject infers audiences from text analysis as well as talking about audiences as products of the particular medium of communication under analysis.

Credit Points: 12 Contact Hours: 3 per week

CSA165 COMPUTING

Offered: Spring

A course in the BASIC language. Computer utilisation and organisation. Problem solving. Analysis of numerical and non-numerical problems. A brief introduction to FORTRAN and the differences between it and BASIC.

Credit Points: 7 Contact Hours: 3 per week

CSA259 INTRODUCTION TO COMPUTING

Offered: Spring

This subject (which assumes no previous knowledge of computing) is intended to give the student a broad overview of the many facets of computing - ranging from the impact of computers on society through to the details involved in data base organisation and the inter-relationship between these facts. The emphasis of the course is on demystifying computers - the student will gain an understanding of the abilities of computers and, in particular, their role in health science.

Credit Points: 6 Contact Hours: 2 per week

CSB100 INTRODUCTION TO COMPUTER SCIENCE

Offered: Autumn, Spring

This subject establishes a basis for the major computing topics to be covered in later subjects. It provides students with a disciplined and structured approach to algorithm design, and introduces a range of problemsolving methods and a variety of programming languages which can be used to process information in a computer.

Credit Points: 9 Contact Hours: 3 per week

CSB101 COMPUTER SYSTEMS I

Offered: Spring

This subject aims to provide an understanding of the physical organisation of a computer system, the control and flow of information within the system, the representation of data in a computer system, and the design of elementary digital electronic circuits. Topics covered include boolean algebra; state concepts; data representation; processor organisation; memory organisation; input/output devices; machine language; and assembly language.

Credit Points: 9 Contact Hours: 3 per week

CSB110 PROGRAMMING PRINCIPLES

Extending material introduced in CSB100, this subject develops structured program design techniques, and introduces advanced algorithms and methods of proving program correctness. Prerequisite: CSB100 Credit Points: 9 Contact Hours: 3 per week

CSB155 INTRODUCTION TO COMPUTING

Offered: Autumn, Spring

The computer as a processor of information. An overview of computers, computer organisation, systems software, programs and the range of programming languages. The design of algorithms using structured techniques and stepwise refinement. Implementation and execution of such algorithms using PASCAL. Credit Points: 8 Contact Hours: 3 per week

CSR181 INTRODUCTION TO COMPUTER

CSB181 INTRODUCTION TO COMPUTER SCIENCE

This subject is designed to provide students with a disciplined and structured approach to algorithm design and problem-solving methods. It introduces a variety of programming languages which can be used to process information in a computer. On completion of the subject, students should be able to solve a variety of problems in different application areas. Credit Points: 12 Contact Hours: 4 per week

CSB191 INTRODUCTION TO COMPUTING

Offered: Autumn

This subject introduces students to technical computer programming, teaching programming techniques for the writing of correct and efficient programs for limited, but typical engineering problems; and using structured programming techniques to write, modify and enhance program applications on selected computer systems using the PASCAL programming language.

Co-requisites: MAB193, CEB184

Credit Points: 4 Contact Hours: 2 per week

CSB200 FOUNDATIONS OF COMPUTING I Offered: Autumn, Spring

A central theme of this subject is the study of abstraction: data abstraction as a technique for dealing with



complex data inter-relationships, and procedural abstraction as a way of expressing complex operations on such structures. It focusses on the concept of the abstract data type (ADT) and introduces a number of important examples of ADTs and associated algorithms. The subject also includes topics such as the analysis of algorithmic complexity, and proofs of correctness.

Prerequisite: CSB110

Credit Points: 9 Contact Hours: 3 per week

CSB201 COMPUTER SYSTEMS II

Offered: Autumn

This subject encompasses organisation of simple computer systems, and the way in which hardware provides the basic facilities for the machine. It introduces techniques involved in the programming of input-output operations, and the interrupt structure which underlies operating system organisation in uniprocessor systems.

Prerequisite: CSB101

Credit Points: 9 Contact Hours: 3 per week

CSB210 FOUNDATIONS OF COMPUTING II Offered: Spring, Autumn

In this subject, special emphasis is given to the analysis of algorithms, the various styles of programming language and the abstractions which they support. It covers languages with notable features designed for special computer classes of problems; searching and sorting algorithms; recursion and iteration; algorithms; and space and time requirements. **Prerequisite:** CSB200

Credit Points: 9 Contact Hours: 3 per week

CSB212 LANGUAGES & LANGUAGE PROCESSING

Offered: Spring

An introduction to the theory and practice of language processing; the design and recognition of small languages for command processors and other interactive programs; and advanced data structures and algorithm design.

Prerequisite: CSB200

Credit Points: 9 Contact Hours: 3 per week

CSB213 SCIENTIFIC APPLICATIONS

Offered: Autumn, Spring

The aim of this subject is to give students a thorough knowledge of FORTRAN and C, and to teach the solving of advanced scientific (e.g., mathematical and engineering) problems.

Prerequisite: CSB110

Credit Points: 9 Contact Hours: 3 per week

CSB259 LABORATORY COMPUTING I

Offered: Autumn, Spring

This subject, which assumes no previous knowledge of computing, gives a broad overview of the many facets of computing. It introduces computer organisation; hardware, software; computer organisaincluding BASIC; data organisation, information storage and retrieval; computer systems including hospital and clinical systems; and social implications. Credit Points: 6 Contact Hours: 2 per week

CSB262 COMPUTING

Offered: Autumn

This subject is intended to provide students with a basic understanding of computer programming and with the ability to program simple applications in the BASIC language. Topics studied include: computer utilisation; computer organisation; programming in BASIC; problem solving; analysis of numerical and non-numerical problems; introduction to FORTRAN. Credit Points: 6 Contact Hours: 2 per week

CSB280 PROGRAMMING PRINCIPLES Offered: Spring

This subject forms a continuation of the material introduced in CSB155. It develops structured program design techniques, and introduces advanced algorithms and methods of proving program correctness. **Prerequisite:** CSB155

Credit Points: 12 Contact Hours: 4 per week

CSB281 COMPUTER SYSTEMS I

Offered: Spring

An understanding of the physical organisation of, the control and flow of information in, and the representation of data in, a computer system. The topics covered are: boolean algebra, state concepts, data representation, processor organisation, memory organisation, input/output devices, machine language, and assembly language.

Credit Points: 12 Contact Hours: 4 per week

CSB282 COMPUTER SYSTEMS II Offered: Autumn

This subject provides an understanding of the organisation of simple computer systems, and the way in which the hardware provides the basic facilities for the machine. It introduces the techniques involved in the programming of input-output operations, and the interrupt structure which underlies operating system organisation in uniprocessor systems.

Prerequisite: CSB281

Credit Points: 12 Contact Hours: 4 per week

CSB283 SCIENTIFIC APPLICATIONS

Offered: Autumn, Spring

The subject aims to give a thorough knowledge of FORTRAN, and to teach the solving of advanced scientific (e.g., mathematical and engineering) problems. It covers FORTRAN programming to an advanced level including aspects of portability arising from differences in standards and compiler implementation, and mathematical software.

Prerequisite: CSB155 Credit Points: 9 Contact Hours: 4 per week

SSB290 FOUNDATIONS OF COMPUTING I

Offered: Autumn, Spring

A central theme of this subject is the study of abstraction: data abstraction as a technique for dealing with complex data inter-relationships, and procedural abstraction as a means of expressing complex operations on such structures. It focuses on the concept of the abstract data type (ADT) and introduces a number of important examples of ADTs and associated algorithms. The subject also includes topics such as the analysis of algorithmic complexity, and proofs of correctness.

Prerequisite: CSB280

Credit Points: 12 Contact Hours: 4 per week

CSB291 INTRODUCTION TO FORTRAN Offered: Spring

The subject aims to extend the student's knowledge of mainframe and industry standard micro-based systems, applying the programming techniques acquired in CSB191 to the FORTRAN programming language. **Prerequisite:** CSB191

Credit Points: 4 Contact Hours: 2 per week



CSB292 FOUNDATIONS OF COMPUTING II

Offered: Spring, Autumn

Special emphasis is given in this subject to the analysis of algorithms, the various programming languages styles, and the abstractions which they support. It covers languages with notable features designed for special computer classes of problems; searching and sorting algorithms; recursion and iteration; algorithms; and space and time requirements. Prerequisite: CSB290

Credit Points: 12 Contact Hours: 4 per week

CSB294 COMPUTER PROGRAMMING

Offered: Autumn

An introduction to algorithms, programs and computers. Basic programming. Program structure. Programming and computing systems. Debugging and verification of programs. Data presentation. Special programming topics.

Co-requisite: SVB121

Credit Points: 6 Contact Hours: 3 per week

CSB301 OPERATING SYSTEMS

Offered: Autumn, Spring

This subject explores the structure of operating systems and real-time software. It examines the process and resource management functions of such software and its realisation in terms of a hierarchy of abstract machines, each of which depends on the set of facilities provided by the abstract machine immediately below it in the hierarchy. While the subject focusses on the hardware-software interface, there is considerable emphasis also on practical work.

Prerequisites: CSB201 OR CSB282 and CSB290 Credit Points: 9 Contact Hours: 3 per week

CSB302 SOFTWARE ENGINEERING

Offered: Autumn

This unit presents the techniques essential to the production of software systems which are reliable, within budget, fully documented, and well tailored to their uses. Practical work provides the means to apply these techniques in the organisation, management and development of software projects with emphasis on modern programming languages supporting software engineering (e.g., Ada, Modula-2). Prerequisites: CSB210 and CSB212 OR CSB290

Credit Points: 9 Contact Hours: 3 per week

CSB311 ADVANCED COMPUTER ARCHITECTURES

Offered: Spring

The organisation of contemporary computer systems, and the variety of different structures which may be used for specific tasks. The subject presents a mixture of theory and case studies based on existing machines of practical or theoretical importance.

Prerequisite: CSB201 OR CSB282

Credit Points: 9 Contact Hours: 3 per week

CSB320 SPECIAL STUDIES

Offered: Autumn, Spring

Covers aspects of current scientific interest; and makes allowances for significant developments or emphasis in computing not included in the remainder of the course program. Check School noticeboards for further details,

Prerequisite: Completion of at least half of the normal program of the Bachelor of Applied Science (Computing) OR completion of at least half of the Graduate Diploma in Computing Science OR 60 Points in computing subjects in the Science major program. Credit Points: 9 Contact Hours: 3 per week

CSB321 GRAPHICS

Offered: Autumn, Spring

To acquaint students with the nature of computer graphics hardware and software; to provide a thorough grounding in the design and implementation of computer graphics software so as to enable students to implement graphic systems in their particular application areas.

Prerequisites: CSB213 OR CSB110 and INB252 OR CSP213 OR CSB283

Credit Points: 9 Contact Hours: 3 per week

CSB323 DATA SECURITY

Offered: Spring

Data Security is an area which combines the subjects of complex computer systems and data communications. This final year elective topic will therefore build upon the data communications and computer systems material and provide students with an insight into an area of rapidly expanding career opportunities. Prerequisite: INB270 OR INP270 OR INB285 Credit Points: 9 Contact Hours: 3 per week

CSB324 ARTIFICIAL INTELLIGENCE

Offered: Autumn

This subject deals with the increasingly important role of artificial intelligence in the computing industry. In particular, aspects of artificial intelligence which have given rise to commercial products are reviewed as well as the background research efforts which promise to have major impact on the use of computers in the near future.

Prerequisite: CSB210 OR CSP214 OR CSB292 Credit Points: 9 Contact Hours: 3 per week

CSB325 EXPERT SYSTEMS

Offered: Spring

Expert systems in the AI context. Knowledge representation techniques. Inference methods. Uncertainty. The expert system development process. Case studies of existing expert systems. The human/expert system interface. Limitations and social implications of expert systems. Current international knowledge-based system programs and future perspectives.

Prerequisites/Co-requisites: CSB210 OR CSP214 OR CSB292

Credit Points: 9 Contact Hours: 3 per week

CSB326 SYSTEMS PROGRAMMING Offered: Spring, Autumn

The subject introduces students to the UNIX operating system at the user and systems programming levels: a study of shell programming and of the UNIX/C programming environment; a detailed examination of UNIX process and device management, UNIX security and UNIX administration; and some time is spent relating the parallelism and inter-process communication features of UNIX/C to similar features in the languages Modula-2 and Ada.

Prerequisite: CSB301 OR CSP213

Credit Points: 9 Contact Hours: 3 per week

CSB350 MISCELLANEOUS STUDIES

Offered: Spring, Autumn

Selected theoretical and/or practical work to complement and/or supplement other subjects studied. Credit Points: 3 Contact Hours: 1 per week



CSB482 PROGRAMMING LANGUAGES & STRUCTURES

Offered: Spring

The syntax of programming languages. Data structures, including lists, graphs and trees. Data abstraction and the use of procedures. **Prerequisite:** CSB280

Credit Points: 9 Contact Hours: 3 per week

CSB490 SOFTWARE ENGINEERING

Offered: Autumn

Using examples from the C and UNIX, the student are introduced to the structure and syntax of well designed programs as well as programming techniques for use in electronics, communications and electrical engineering. **Prerequisite:** CSB190 [R]*

Credit Points: 6 Contact Hours: 3 per week

CSB960 PROJECT WORK

Offered: Spring

Students will undertake a substantial project which is relevant to the needs of industry. Each project is carried out under the supervision of a staff member whose interests lie in the field of the project.

Credit Points: 12 Contact Hours: 3 per week

CSN100 THEORY OF COMPUTING I

Offered: Autumn

Formal properties of programs and automata. The view of programs as predicate transformers is developed as a method of constructing provably correct algorithms. Methods of software development based on formal specifications are introduced. The relationship between computational problems posed as questions of language recognition and the operation of automata is developed, and the implications for computational complexity explored.

Prerequisite: CSB210 (or equivalent)

Credit Points: 12 Contact Hours: 3 per week

CSN110 COMPILER CONSTRUCTION

Offered: Spring

The organisation and structure of language translators and compilers. Some emphasis is placed on those parts of these software tools which are amenable to formal analysis. The material extends undergraduate studies in algorithm design and in the semantics of formal languages. Special attention is paid to techniques which are applicable in the implementation of special purpose languages such as database query languages and production systems.

Prerequisite: CSB212 (or equivalent)

Credit Points: 12 Contact Hours: 3 per week

CSN200 COMPUTER SECURITY

Offered: Autumn

This postgraduate subject introduces the graduate to the major topics in computer and data network-related security with the potential, if required, for specialisation in this growing area. Development of a security plan; risk analysis; access control; cryptography, network encryption; key management; database security. **Prerequisite:** An appropriate and recognised degree according to postgraduate requirements of QUT or equivalent qualifications and/or experience as determined by the Faculty.

Credit Points: 12 Contact Hours: 3 per week

CSN210 DISTRIBUTED SYSTEMS

Offered: Autumn

This subject is intended to provide a thorough understanding of the rationale for distributed computer systems, their domain of application and the prin * See note, page 374. ciples of distributed control underlying their construction. A number of representative systems will be examined throughout the subject.

Prerequisites: CSB301 (or equivalent) AND CSB311 (or equivalent)

Credit Points: 12 Contact Hours: 3 per week

CSN220 ARTIFICIAL INTELLIGENCE

Offered: Spring

This subject deals with the increasingly important role of artificial intelligence in the computing industry. In particular, aspects of artificial intelligence which have given rise to commercial products are reviewed as well as the background research efforts which promise to have major impact on the use of computers in the near future.

Prerequisite An undergraduate level artificial intelligence or expert systems subject.

Credit Points: 12 Contact Hours: 3 per week

CSN300 THEORY OF COMPUTING II

Offered: To be advised

The ideas developed in CSN110 Theory of Computing I are extended towards a more complete grounding in language theory. Modern developments such as methods of semantic specification and extensions of context-free grammars are covered.

Prerequisite: CSN100

Credit Points: 12 Contact Hours: 3 per week

CSN310 PARALLEL PROCESSING

Offered: To be advised

Parallel Processing is concerned with the architecture and performance of parallel computer systems. The subject consequently deals at length with the modelling of parallel systems and the design methodologies used in their construction. A range of applicable software systems and methodologies is examined. The formal analysis of concurrent systems is based on the theory of Communicating Sequential Processes. **Prerequisite:** CSN210

Credit Points: 12 Contact Hours: 3 per week

CSN320 FORMAL SECURE SYSTEMS

Offered: To be advised

The purpose of this subject is to explore the formal mechanisms required in the design of secure systems. It will commence with a study of formal models of secure systems, e.g. Bell La Padula model and then explore the relationship between formal methods of computer science and the design of formally verifiable computer systems.

Prerequisites: ČSN100 AND CSN200 Credit Points: 12 Contact Hours: 3 per week

CSN330 NATURAL LANGUAGE PROCESSING

Offered: To be advised

This subject treats an important specialisation within the field of artificial intelligence and its applications. **Prerequisite:** An introductory subject in natural language processing.

Credit Points: 12 Contact Hours: 3 per week

CSN340 COMPILER LABORATORY

Offered: Autumn, Spring

This subject allows for in-depth treatment of topics of contemporary translator construction in a practical setting. Particular emphasis will be placed on code generation methods for advanced computer architectures. **Prerequisite:** CSN110

Credit Points: 12 Contact Hours: 3 per weck



CSN350 ADVANCED GRAPHICS I

Offered: Autumn

This subject provides an advanced level extension of the material in the undergraduate curriculum. Particular emphasis is placed on the use of facilities provided by existing graphics systems. **Prerequisite:** CSB321 (or equivalent)

Credit Points: 12 Contact Hours: 3 per week

CSN360 ADVANCED GRAPHICS II

Offered: Spring

This subject provides coverage of specialised areas of computer graphics. Topics will be agreed between staff and students.

Prerequisite: CSN350

Credit Points: 12 Contact Hours: 3 per week

CSN370 SPECIAL TOPIC

Offered: Autumn, Spring

Covers at each offering aspects of scientific interest at that time. See School noticeboards for further information. **Prerequisite:** To be advised

Credit Points: 12 Contact Hours: 3 per week

CSP112 SOFTWARE PRINCIPLES Offered: Autumn

This subject introduces students to the study and use of efficient data structures and to a number of languages illustrating the variety of features found in computer programming languages. Structured program design techniques; advanced algorithms and methods of providing program correctness.

Prerequisite: Completion of a qualifying PASCAL programming subject prior to entry to the course. Credit Points: 12 Contact Hours: 3 per week

CSP211 SYSTEMS ARCHITECTURE & OPERATING SYSTEMS

Offered: Spring

To provide students with an understanding of computer organisation, the nature and role of system software and the nature of micro-computers and computer graphics. Computer systems architecture, micro-operations, instruction formats, microprocessor types, machine language, system software including operating systems features, assemblers, compilers, loaders.

Prerequisites: CSP112

Credit Points: 12 Contact Hours: 3 per week

CSP212 LANGUAGES & LANGUAGE PROCESSING

Offered: Spring

An introduction to the theory and practice of language processing; the design and recognition of small languages for command processors and other interactive programs; advanced data structures and algorithm design.

Prerequisite: CSP214

Credit Points: 12 Contact Hours: 3 per week

CSP213 SCIENTIFIC APPLICATIONS

Offered: Autumn

The aim of this subject is to give students a thorough knowledge of FORTRAN and C, and to teach them to solve advanced scientific (e.g., mathematical and engincering) problems.

Prerequisites: CSP112

Credit Points: 12 Contact Hours: 3 per week

CSP214 PROGRAMMING LANGUAGES & STRUCTURES

Offered: Spring

This subject forms a continuation of the material introduced in the prerequisite subjects. Special emphasis is given to the analysis of algorithms, the various styles of programming languages and the abstractions which they support.

Credit Points: 12 Contact Hours: 3 per week

CSP960 PROJECT WORK

Offered: Spring

Students, either individually or in small groups, undertake a substantial project relevant to the needs of industry and designed to give insight into industrial requirements. Each project is carried out under the supervision of a staff member whose interests lie in the field of the project. Before work commences on the project, student(s) and supervisor must agree on the topic of the project and the scope of the work to be attempted.

Prerequisites: Successful completion of all other core subjects of the Graduate Diploma in Computing Science.

Credit Points: 12 Contact Hours: 3 per week

CSP970 PROJECT WORK A

Offered: Autumn

Students, either individually or in small groups, undertake a substantial project relevant to the needs of industry and designed to give insight into industrial requirements. Each project is carried out under the supervision of a staff member whose interests lie in the field of the project. Before work commences on the project, student(s) and supervisor must agree on the topic of the project and the scope of the work to be attempted.

Prerequisites: Completion of at least half of the Graduate Diploma in Computing Science.

Credit Points: 12 Contact Hours: 3 per week

CST390 COMPUTER PROGRAMMING I

Offered: Autumn

A first course on computers, including brief introductions to operating systems and utilities. The major emphasis of the subject is on design of algorithms and their implementation in a structural language.

Credit Points: 7 Contact Hours: 3 per week

EEB101 CIRCUITS & MEASUREMENTS Offered: Autumn

Lectures and practical sessions covering the concepts of voltage, current and electrical impedance, simple electrical circuits (R, L and C) and the measurement of electrical quantities using the oscilloscope, meters and bridges. Introduction to AC theory, errors in measurement, traceability of measurement. Credit Points: 7 Contact Hours: 3 per week

EEB202 ELECTROMAGNETICS

Offered: Autumn, Spring

Introducing engineering applications of current flow, electrostatic and electromagnetic fields. Ideal and loosely coupled transformers - instrument and high frequency transformers. Electrical power supply and safety. Introduction to all types of rotating electrical machines. Credit Points: 6 Contact Hours: 3 per weck

EEB203 CIRCUIT ANALYSIS

Offered: Spring

Network theorems, mesh and nodal analysis, complex power. Introduction to the concept of steady-state response. Introduction to transient response of RL, RC and RCL circuits with step forcing functions. Mutual inductance, three phase systems.

Prerequisite: EEB101

Credit Points: 5 Coutact Hours: 3 per week



EEB209 ELECTRICAL ENGINEERING IIM

Offered: Autumn

A series of lectures and practical sessions to introduce students in mechanical engineering to the basic principles of microprocessors, microprocessor systems, electrical machines, power control and tariffs. The subject material is presented at a basic level with heavy emphasis on practical applications.

Credit Points: 6 Contact Hours: 3 pcr wcck

EEB272 DIGITAL PRINCIPLES

Offered: Spring

Binary variables, number systems, Boolcan algebra, minimisation of logic functions, logic gates, analysis and synthesis of combinational logic functions.

Credit Points: 3 Contact Hours: 1.5 per week

EEB273 MICROCOMPUTERS IN ENGINEERING

Offered: Spring

Introduction to the physical, virtual and application levels of a microcomputer system. I/O devices and interfacing. Operating systems. Programming and software packages. Transducers and peripheral devices. Hardware and software integration. Credit Points: 4 Contact Hours: 2 per week

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EEB302 ELECTROTECHNOLOGY

Offered: Autumn

Magnetic circuits, magnetic materials, transformers and electro-magnetic devices. Heating and cooling of electrical equipment and plant, protection. Power distribution, three phase, balanced and unbalanced loads, power and measurement.

Prerequisites: EEB202, EEB203

Credit Points: 6 Contact Hours: 3 per week

EEB303 NETWORK THEORY I

Offered: Autumn

A detailed study of the basic theory of network analysis covering Laplace and Fourier analysis, four terminal network theory, frequency behaviour and transient response of networks.

Prerequisites: EEB203, MAB193

Co-requisite: MAB493

Credit Points: 7 Contact Hours: 3 per week

EEB361 SIGNALS & SYSTEMS

Offered: Autumn

A detailed study of Fourier theory applied to signals. An overview of systems and their representation, response of systems to signals. **Prerequisites: EEB**203, MAB193 **Co-requisite: MAB493**

Credit Points: 7 Contact Hours: 3 per week

EEB371 ELECTRONIC DEVICES

Offered: Autumn

Theory of operation and characteristics of semiconductor devices including various types of diodes, the bipolar junction transistor and the field effect transistor. Development and practical applications of small signal models.

Prerequisite: EEB101

Credit Points: 5 Contact Hours: 3 per week

EEB372 SEQUENTIAL LOGIC

Offered: Autumn

Flip-slops, counters, shift registers, asynchronous and synchronous sequential machines. Realisation of sequential machines using PROMs, GALS, etc. **Prerequisite:** EEB272 Co-requisite: EEB371

Credit Points: 7 Contact Hours: 3 per week

EEB400 ELECTRICAL POWER SYSTEMS

Offered: Autumn

This subject gives students an overall introduction to electrical power systems calculations and covers the technology of overhead lines and cables. Elementary electrical engineering economics are also introduced at this stage.

Prerequisite: EEB302

Credit Points: 6 Contact Hours: 3 per week

EEB401 NETWORK THEORY II

Offered: Spring

General transform theory. Stability and realisability of networks. The synthesis of networks and filters. An introduction to non-linear analysis techniques for simple networks.

Prerequisite: EEB303 Co-requisite: EEB361 Credit Points: 6 Contact Hours: 3 per week

📓 EEB404 ELECTRICAL MACHINES

Offered: Autumn

In this subject students are introduced to the fundamentals of torque production in rotating machines. The theory of operation and characteristics of most commonly used machines are then derived from common foundations.

Prerequisite: EEB302

Credit Points: 6 Contact Hours: 3 per week

EEB430 ENGINEERING FIELDS

Offered: Spring

Electrostatic and magnetic fields, Maxwell's equations and electromagnetic waves. Prerequisites: MAB193, PHB132, PHB232 Credit Points: 6 Contact Hours: 3 per week

EEB471 ELECTRONICS

Offered: Spring

A detailed study of transistor circuits and their applications. Circuits, fundamental to the understanding of integrated circuit amplifiers, are studied in detail. **Prerequisite:** EEB371

Credit Points: 7 Contact Hours: 3 per week

EEB472 MICROPROCESSORS

Offered: Spring

Microprocessor architecture, instruction sets, assembly language programming. Memories, input/output devices and interrupt systems. **Prerequisite:** EEB372

Credit Points: 6 Contact Hours: 3 per week

EEB473 INTEGRATED CIRCUITS

Offered: Autumn

This subject provides the fundamental theory of operation of integrated circuits and the generalised concepts of feedback in electronic circuits. Various operational amplifier configurations are analysed. Oscillators and timing circuits are also studied. Prerequisite: EEB471

Credit Points: 6 Contact Hours: 3 per week

EEB520 CONTROL ENGINEERING Offered: Autumn

Survey of oneasurement transducers, amplifiers, signal processors and final control elements. Selection of system components. Application of micro-computers to closed-loop control. Examples of closed-loop systems. System transfer function and time domain performance.

Prerequisite: EEB302 Co-requisite: EEB401 Credit Points: 6 Contact Hours: 3 per week



EEB531 ELECTRICAL POWER TRANSMISSION

Offered: Spring

Equivalent circuits of power equipment. The pu method. Power flows in networks, solution by Gauss Siedel. Sequence components, fault analysis by sequence methods. Power system harmonics. Transients due to switching. Transmission plant parameters.

Prerequisite: EEB400

Credit Points: 6 Contact Hours: 3 per week

EEB553 ELECTRICAL POWER

EQUIPMENT

Offered: Spring

Ratings of equipment, insulation, distribution switchgear and protection, a.e. generators, power measurement and metering, power conversion. Prerequisite: EEB400

Credit Points: 6 Contact Hours: 3 per week

EEB561 ANALOGUE COMMUNICATIONS Offered: Spring

Analogue modulations and demodulations hardware, including discrete and integrated electronic methods. AM-SSB-FM modulation and demodulation methods. Heterodyne receivers - image and spurious responses of double and single conversion receivers. Distributed networks - radio and transmission-line links effects and modulated signals.

Prerequisites: EEB361, EEB303

Credit Points: 6 Contact Hours: 3 per week

EEB562 TRANSMISSION & PROPAGATION

Offered: Autumn

Transmission line theory, terminated line, Smith Circle Chart usage and lattice diagram. Propagation modes in wave guides and optical fibres. Free-space propagation, ionospheric and ground wave propagation. Basic antenna parameters.

Prerequisites: EEB361, EEB430

Credit Points: 6 Contact Hours: 3 per week

EEB573 INDUSTRIAL ELECTRONICS

Offered: Autumn

The study of a wide range of modern electronic devices and circuits with particular emphasis to industrial application.

Prerequisite: EEB471

Credit Points: 6 Contact Hours: 3 per week

EEB587 DESIGN I

Offered: Autumn

General principles of electronic circuit and electrical equipment design and the realisation of typical electronic circuits and equipment.

Prerequisites: EEB401, EEB361, EEB400

Credit Points: 6 Contact Hours: 3 per week

EEB591 SYSTEMS PROGRAMMING LANGUAGES

Offered: Autumn

The syntax and facilities of the C programming language are studied and applied to systems programming.

Prerequisite: EEB472

Credit Points: 6 Contact Hours: 3 per week

EEB600 STARTING A TECHNOLOGY BASED BUSINESS

Offered: Spring

The subject covers introduction to business structures, forming a business team, marketing and market re-

search, financing new high risk business, selling yourself with business plans and presentation skills, product development, manufacturing and distribution, inventions, useful people to talk to.

Credit Points: 4 Contact Hours: 2 per week

EEB601 REALTIME OPERATING SYSTEMS

Offered: Spring

Theory and practical aspects of the use of microprocessors and computers as components in time critical engineering applications. Methods of guaranteeing computer response within a specifiable time. Applications related to embedded systems and some business applications. Design of new systems and study of existing systems.

Prerequisite: EEB591

Credit Points: 6 Contact Hours: 3 per week

EEB602 SIGNAL PROCESSING Offered: Spring

Sampling and reconstruction, z-transforms description of discrete-time signals. Digital filtering - FIR, IIR. Discrete Fourier transform and relationship with z-plane. Leakage effects and window functions. Discrete Hilbert transform relationships.

Prerequisites: EEB361, EEB401, MAB893,

Credit Points: 6 Contact Hours: 3 per week

EEB620 CONTROL SYSTEMS ANALYSIS Offered: Spring

Time-domain, frequency-domain, and complexdomain analysis of systems. Closed-loop control system performance and system compensation. Digital computer control of closed-loop systems. Analogue and digital simulation of systems. **Prerequisite:** EEB520

Credit Points: 6 Contact Hours: 3 per week

EEB621 ADVANCED CONTROL SYSTEMS Offered: Spring

System performance specification format. Selection of control system elements. Design of linear system compensation using analogue and digital techniques. Techniques for dealing with system non-linearities and non-linear system analysis and design. Examples of typical control systems.

Prerequisite: EEB620

Credit Points: 6 Contact Hours: 3 per week

EEB652 POWER ELECTRONICS

Offered: Autumn

Review of modern switching components, characteristics and device control methods. Principles of operation of controlled reetifiers and chopper techniques for d.e. motor control; quasisquare and PWM invertors for induction and synchronous motor control; static switches for induction motor soft start control and static VAR compensation; induction motor drive and d.e. motor drive control strategies; harmonic analysis and waveform modelling analysis. Prerequisite: EEB573

Credit Points: 7 Contact Hours: 3 per week

EEB661 INFORMATION THEORY & NOISE

Offered: Autumn, Spring

Information in discrete and continuous channels, coding efficiency, statistical description of noise, effects of transformations on signal parameters, error rates, effect of noise in information transfer.

Prerequisites: MAB493, EEB361

Credit Points: 6 Contact Hours: 3 per week

EEB662 MICROWAVE & ANTENNA TECHNOLOGY

Offered: Autumn

Propagation in rectangular and circular guides, guide components, microwave active devices, high frequency techniques, various types of antennas, antenna arrays, computer aided antenna design, antenna measurements.

Prerequisite: EEB562

Credit Points: 7 Contact Hours: 3 per week

EEB741 POWER SYSTEMS ANALYSIS Offered: Spring

Economic operation of power systems, system stability, power system control. HVDC power transmission. Advanced harmonic analysis. Surge phenomena in machine and transmission lines. **Prerequisite:** EEB531 [R]*

Credit Points: 8 Contact Hours: 3 per week

EEB742 POWER SYSTEMS ENGINEERING

Offered: Autumn

Substation engineering, protection of plant, substation carthing, system overvoltages, insulation co-ordination, HV switchgear.

Prerequisite: EEB531

Credit Points: 7 Contact Hours: 3 per week

EEB761 STATISTICAL COMMUNICATIONS

Offered: Autumn, Spring

PCM quantisation noise in uniform and non-uniform quantisation. Effects of channel noise on S/N. Delta modulation and delta-sigma modulations. Threshold extensions, spread spectrum, matched filtering and correlation.

Prerequisite: EEB661

Credit Points: 7 Contact Hours: 3 per week

🔳 EEB788 DESIGN II

Offered: Autumn

Design principles and practice of more complex electronic circuits and electrical equipment and systems used in industry.

Prerequisites: EEB587, EEB561, EEB520, EEB400 Credit Points: 8 Contact Hours: 3 per week

🔳 EEB789 PROJECT

Offered: Full year

An individual engineering project on a specified subject. The work requires design, computing, construction, experimental work and practical testing with the submission of appropriate reports. The subject is selected from any area which involves electronics, computing, control, communication and educational power and may include programming, circuit and system design.

Co-requisite: This subject must be done in the final year of course.

Credit Points: 15 Contact Hours: 6 per week

EEB820 ENGINEERING MANAGEMENT Offered: Spring

Economic analysis of electrical engineering projects. Present worth and annual cost calculations. Assessment of tenders. Project management, critical paths and linear programming methods. Contract administration. Engineering case studies.

Credit Points: 8 Contact Hours: 3 per week * See note, page 374.

EEB821 PRODUCTION TECHNOLOGY & QUALITY

Offered: Autumn

The methodology of electronic system design, the range of production processes in electronic manufacture, and the quality control procedures required in electronic manufacturing at both prototype and full production stages.

Prerequisites: EEB587, EB788

Credit Points: 6 Contact Hours: 3 per week

🖾 EEB887 DESIGN III

Offered: Spring

Detailed design and realisation of typical electronic and power based sub-systems used in all areas of electronic systems and power systems engineering. Prerequisites: EEB788, EEB602, EEB620, EEB472, EEB400, EB971, or EEB531 Co-requisites: EEB968 or EEB742 Coredit Points: 6 Contact Hours: 3 per week

EEB888 DESIGN IV

Offered: Spring

System design lechniques and practice in these techniques on typical electronic systems and power systems, taking into account such factors as realisability, realiability, complexity, economic considerations and optimisation.

Prerequisite: EEB887

Credit Points: 10 Contact Hours: 3 per week

EEB890 ADVANCED INFORMATION TECHNOLOGY TOPICS

Offered: Spring

The content of this subject depends on current technology and availability of suitable specialist lecturers. Subjects could include artificial intelligence, computer graphics, database systems, computer aided engineering, supercomputing and parallel processing. **Prerequisite:** EEB591

Credit Points: 8 Contact Hours: 3 per week

EEB922 COMPUTER CONTROLLED SYSTEMS

Offered: Autumn, Spring

Computer control of typical process control systems. Numerical control of machine tools and an introduction to robotics. Optimal control and self-adaptive control systems. Sequential control systems. **Prerequisites:** EEB621, EEB620

Credit Points: 7 Contact Hours: 3 per week

EEB944 POWER STATION ENGINEERING Offered: Autumn, Spring

This subject deals with the electrical and mechanical plant found in power stations and with associated instrumentation and control equipment.

Credit Points: 7 Contact Hours: 3 per week

EEB951 HIGH VOLTAGE EQUIPMENT

Offered: Autumn, Spring

Review of modern insulating materials. High voltage test methods and apparatus. Characteristics of electrical insulation theories of breakdown in dielectrics. Non-destructive testing methods dielectric loss angle, partial discharge. Voltage surge distribution in power equipment. Overhead line insulation and lightning. Co-requisite: EEB742

Credit Points: 7 Contact Hours: 3 per week



EEB954 ELECTRICAL ENERGY UTILISATION

Offered: Autumn, Spring

Power reticulation in building, energy management, fire protection systems, illumination technology, airconditioning plant, building supervising and control systems, lifts.

Prerequisite: EEB553

Credit Points: 7 Contact Hours: 3 per week

EEB961 COMMUNICATION TECHNIQUES

Offered: Autumn, Spring

Modern communication techniques including switched networks, broadcast, point-to-point systems; microwave and optical links; radio navigation and radar; associated electronic devices.

Prerequisite: EEB661

Credit Points: 7 Contact Hours: 3 per week

EEB962 MICROWAVE SYSTEMS ENGINEERING

Offered: Autumn, Spring

Microwave thermionic and semiconductor devices, amplifier design using scattering parameters. Passive microwave devices including non-linear networks and ferrites. Array theory and design, microwave antennae. **Prerequisite:** EEB662

Credit Points: 7 Coutact Hours: 3 per week

EEB967 DIGITAL COMMUNICATIONS

Offered: Autumn

Topics in the theory and applications of digital communications technology. Baseband digital signals are introduced; pulse shaping, signal regeneration, measurement techniques, and the digital coding of analogue signals are treated. Such applications as digital radio systems, digital telephone and computer networks, enror control in digital networks and ISDN are analysed. Credit Points: 6 Contact Hours: 3 per week

EEB968 DIGITAL SIGNAL PROCESSING

Offered: Autumn

Adaptive digital filtering and applications, spectral estimation techniques, speech analysis and synthesis. Realtime implementation of signal processing systems. **Prerequisite:** EEB602

Credit Points: 7 Coutact Hours: 3 per week

EEB971 APPLIED ELECTRONICS

Offered: Autumn

Analysis of the characteristics and applications of a variety of integrated devices. Particular attention is given to new products. Emphasis is placed on errors and quality of design.

Prerequisite: EEB573

Credit Points: 6 Contact Hours: 3 per week

EEB972 INTEGRATED ELECTRONIC TECHNIQUES

Offered: Autumn, Spring

Study of a wide range of commercially available integrated circuits and their typical applications in industry. Design rules, limitations and methods of VLSI fabrication.

Prerequisite: EEB573 Co-requisite: EEB602

Credit Points: 7 Contact Hours: 3 per week

EEP101 ALGORITHMS FOR CONTROL & SIGNAL PROCESSING

Offered: Spring

The application of numerical analysis methods, equation solving and signal processing; the design of digital computer algorithms for the processing of signals and the control of continuous and discrete processes; and the application of optimisation techniques to system control.

Credit Points: 12 Contact Hours: 3 per week

EEP102 UNIX & C FOR ENGINEERING Offered: Autumn

The C language. Use of C for program development. Use of C as a substitute for assembly language to produce ROMable code with methods and particular problems. The UNIX operating system and its use as an engineering work station operating system.

Credit Points: 12 Contact Hours: 3 per week

EEP103 COMPUTER HARDWARE & INTERFACING

Offered: Spring

State-of-the-art digital devices. Design and implementation of digital systems. Microprocessors and microcontroller systems and interfacing. Computer architectures, subsystems and peripherals.

Credit Points: 12 Contact Hours: 3 per week

EEP104 REALTIME OPERATING SYSTEMS

Offered: Autumn

Definition and review of realtime operating systems. Detailed examination of the structure of realtime operating system. The development of programming skills, orientated towards realtime applications. Programming exercises for realtime applications using assembler and highlevel languages.

Co-requisite: EEP102

Credit Points: 12 Contact Hours: 3 per week

EEP120 NETWORKS & DISTRIBUTED COMPUTING

Offered: Spring

A thorough treatment of the ISO OSI model of computer interconnections and common techniques for layers 3 to 7. This includes protocols, software and packages and the computers which support these layers. A lighter treatment of layers 1 and 2 is also included.

Prerequisites: EEP103, EEP104

Credit Points: 12 Contact Hours: 3 per week

EEP121 PARALLEL & SUPER COMPUTING

Offered: Spring

An open ended subject covering the latest in vector processing and parallel computing technology. Students will have access to parallel computer development systems, and may be required to undertake a small research project.

Credit Points: 12 Contact Hours: 3 per week

EEP122 GRAPHICS & COMPUTER VISION

Offered: Autumn

This subject provides an introduction to the human visual system and the modelling of digital images. It also provides an introduction to a range of digital image process systems, transforms, image enhancement, image structural operations and pattern recognition.

Credit Points: 12 Contact Hours: 3 per week

EEP123 PROCESS CONTROL & ROBOTICS

Offered: Autumn

A thorough survey of computers as applied to manufacturing, encompassing hardware and software methods and state-of-the-art products. Material includes robots, computer numerically controlled



machine tools, distributed process control, networks and computers.

Prerequisite: EEP101

Credit Points: 12 Contact Hours: 3 per week

EEP124 DATA COMMUNICATIONS

Offered: Autumn

The subject covers characteristics of transmission channels, synchronous and asynchronous modems and interfaces, fibre optic and satellite links, local and wide area networks, encoding and security.

Credit Points: 12 Contact Hours: 3 per week

EEP125 ADVANCED ENGINEERING SOFTWARE TOOLS

Offered: Spring

The subject covers selected numerical techniques and computer software tools available in procedural and non-procedural languages as well as specialised commercial applications packages for the analysis and design of data transmission systems,

Credit Points: 12 Contact Hours: 3 per week

EEP300 RESEARCH PROJECT

A computer engineering research project in the student's chosen field encompassing a literature search, design, hardware construction or writing of software, testing and publication of a thesis. Credit Points: 24 per semester Contact Hours: 168

EET100 ELECTRICAL ENGINEERING COMPUTATIONS

Offered: Autumn

Study of and practice in manipulating complex numbers, vectors, determinants and matrices, statistics, differential equations. Fourier analysis, Examples in electrical engineering applications using calculators. Credit Points: 7 Contact Hours: 3 per week

EET111 ELECTRICAL ENGINEERING I

Offered: Autumn

SI units, d.c. circuits including: parallel and series resistor combinations, temperature coefficient of resistance, and circuit theorems. Electrostatics and capacitance. Self inductance. Transients RL and RC circuits.

Credit Points: 7 Contact Hours: 3 per week

EET211 ELECTRICAL ENGINEERING II Offered: Autumn, Spring

Introduction to alternating quantities. Sinusoidally time varying sources. Phasor diagrams. RL, RC and RLC series and parallel circuits. Resonance, j notation, Complex power. Application of circuit theorems to a.c. circuits.

Prerequisite: EET111

Credit Points: 7 Contact Hours: 3 per week

EET270 ELECTRONICS I

Offered: Spring

An introduction to the fundamentals of electronic devices and transistor circuits. Emphasis is placed on characterising and applying these devices to basic electronic circuits. Applications include: transistor amplifiers including differential and tuned stages, current sources, oscillators and simple fault finding techniques.

Prerequisites: EET111, EET100

Co-requisite: EET211

Credit Points: 7 Contact Hours: 3 per week

EET350 ELECTRICAL ENGINEERING III

Offered: Autumn, Spring

Magnetic circuits, single phase transformers equivalent circuits, power losses, regulation and efficiency. Three phase theory balanced and unbalanced loads, measurement of power. Electrical safety earthing, fault levels and protection equipment. Electrical machines review of principles of operation and characteristics of a range of a.c. and d.c. machines. Costs of electricity tariffs.

Prerequisite: EET211

Credit Points: 7 Contact Hours: 3 per week

EET420 CONTROL SYSTEMS I

Offered: Spring

Distinction between open and closed loop, discrete and continuous control. Typical nonlinearities, Transducers for temperature, pressure, fluid flow rate, level, velocity, position, strain. Survey of summation and amplifying techniques for electronics (revision), pneumatic and hydraulic systems. Motors, control valves, actuators and brief survey of commercial controllers. The use of negative feedback; improvement in linearity, speed of response, etc. Survey of hardware employing negative feedback. Philosophy of mathematical modelling. Introduction to differential equations. Laplace transforms and transfer functions. Block diagrams. Responses in the time domain. Introduction to frequency domain analytical techniques.

Prerequisite: EET211

Credit Points: 7 Contact Hours: 3 per week

EET460 TELECOMMUNICATIONS

Offered: Autumn

Topies include: the nature of signals; elementary Fourier analysis; the concept of modulation; amplitude and angle modulation; pulse modulation; multiplexing; signal processing and noise; the nature of links; noise and links; mixing and superhet principles; digital and data transmission and fibre optics. Prerequisites: EET100, EET211

Credit Points: 7 Contact Hours: 3 per week

EET490 COMPUTER PACKAGES

Offered: Spring

A brief study and use of packages such as word processors, spreadsheets, database packages and commonly used engineering packages such as Mathlab and Spice hardware interconnection.

Credit Points: 7 Contact Hours: 3 per week

EET500 ELECTRICAL TECHNOLOGY Offered: Autumn

Introduction to electric motors, generators, transformers and three phase systems.

Contact Hours: 3 per week Credit Points: 6

EET522 CONTROL SYSTEMS II

Offered: Autumn

Process control system terminology and symbols. Review of hardware as necessary. Chart recorders. Sizing of control valves. Measurement of mass flowrate, humidity and chemical composition. Analogue data transmission standards. Three term controllers and other appropriate techniques. Examples of process control configurations, such as cascade, ratio and feedforward control. Controller tuning. System performance for reference, noise and load disturbances. Accuracy, steady state errors, effect of type number on performance. Stability and more advanced frequency domain analysis. Machine control systems, such as D.C. motor speed controllers,



variable frequency controllers, servosystems, performance of machine control systems. **Prerequisite:** EET420

Credit Points: 7 Contact Hours: 3 per week

EET560 COMMUNICATIONS ENGINEERING I

Offered: Autumn

Areas covered include: advanced signal analysis using Fourier methods; AM generation and detection, the effects of filtering and noise; FM and PM generation and demodulation, effects of noise, FM threshold, SSB methods; phase locked loop principles; radio receiver circuits, double conversion, spurious responses; pulse analogue modulation, PAM, PWM, PPM, circuits and spectra.

Prerequisites: EET270, EET460

Credit Points: 7 Contact Hours: 3 per week

EET570 ELECTRONICS II

Offered: Autumn

This subject introduces the student to integrated circuit amplifiers and their applications. Other areas of study include: power amplifiers; optoclectronic devices; voltage regulators and a survey of semiconductor switching devices.

Prerequisite: EET270

Credit Points: 7 Contact Hours: 3 per week

EET590 MICROPROCESSOR SYSTEMS

Offered: Autumn

Assembly language programming and use of microprocessors as electrical engineering hardware. Interfacing of microprocessors to instrumentation and external equipment.

Prerequisites: CST390, EET676

Credit Points: 7 Contact Hours: 3 per week

EET642 ELECTRICAL POWER SYSTEMS I Offered: Autumn

Single line diagrams, pu systems, transmission line equivalent circuits, fault balanced calculations, power flow calculations, overhead line and underground cable characteristics, power system insulation.

Prerequisite: EET350 Credit Points: 7 Contact Hours: 3 per week

EET650 ELECTRICAL EQUIPMENT

Offered: Spring

Three phase transformers, multiwinding, auto. Special types of a.c. machines including three phase and single phase induction motors, synchronous machine construction and operation.

Prerequisite: EET350

Credit Points: 7 Contact Hours: 3 per week

EET676 DIGITAL ELECTRONICS

Offered: Autumn, Spring

This subject introduces the basic concepts of digital combinational and sequential logic circuits. Logic gates, Boolean algebra, minimisation of logic functions, counters, shift registers, address, ADCs, DACs and logic families. Code converters and binary arithmetic. Co-requisite: EET270

Credit Points: 7 Contact Hours: 3 per week

EET678 APPLIED ELECTRONICS

Offered: Spring

The subject introduces the integrated circuit approach to electronic systems design. The subject is highly practical and utilises the basic fundamentals of ICs given in integrated circuits. Further treatment of in-

tegrated circuits with practical applications: amplifiers (all the common configurations), oscillators, special purpose circuits such as peak detectors, sample and hold circuits, active filters. **Prerequisite:** EET570

Credit Points: 7 Contact Hours: 3 per week

EET690 COMPUTER ORGANISATION Offered: Spring

A comparative study of computer architectures and operating systems from microprocessors up to super computers. Virtual machines, interpreters, compilers, linkers, loaders, disc operating systems and executive. Instruction sets, addressing modes and instruction pre fetch cycles. A survey of memory management techniques such as memory maps, virtual memory, cache memory, and interleaving. Exception processing methods such as interrupts, autovectors, bus errors and supervisor states. Multi processor systems and computer communications standards, networks and protocols. Parallel computing, pipelines, single instruction multiple data and multiple instruction

Prerequisites: CST390, EET676

Credit Points: 7 Contact Hours: 3 per week

EET720 MODERN CONTROL TECHNOLOGY

Offered: Autumn

Onstream analysers; intelligent analytical equipment. Sequence control and programmable logic controllers. Robot sensors and control systems. Computer numerical controlled machines. Distributed control systems. Sampling theory and algorithm development. Communication between intelligent control systems (such as MAP and TOP). Adaptive and automatic tuning controllers. Advanced testing instruments.

Prerequisite: EET420 Co-requisite: EET522 Credit Points: 7 Contact Hours: 3 per week

EET737 TRANSMISSION & PROPAGATION

Offered: Spring

Transmission lines study of waves; reflections; matching; using Smith circle and computer aided techniques. Electromagnetic waves in free space and at the boundary between media. Basic antenna parameters and properties, waveguide theory and microwave techniques and an introduction to optical fibre technology.

Prerequisite: EET460

Credit Points: 7 Contact Hours: 3 per week

EET753 TESTING & COMMISSIONING TECHNIQUES

Offered: Autumn

This subject covers the philosophy of testing, the concepts of quality assurance and the principles of commissioning. Test methods and techniques for various electrical tests; application of test methods and techniques to a range of electrical plant; principles of earthing in a power system; safety procedures.

Prerequisite: EET350

Credit Points: 7 Contact Hours: 3 per week

EET760 COMMUNICATIONS ENGINEERING II

Offered: Autumn

Topics include: sampling, reconstruction, spectra; quantisation, dynamic range and noise; PCM methods and circuitry, companding; delta modulation; digital transmis-



sion, TDM, FDM, modulation methods. Data coding for error correction and data communication protocols.

Prerequisite: EET560

Credit Points: 7 Contact Hours: 3 per week

EET790 COMPUTER PROGRAMMING I

Offered: Autumn

Digital computers, their construction and operation, description of machine languages and the various programming languages in common use such as FORTRAN, COBOL, ALGOL. Program writing in FORTRAN and other languages, use of flow charts, debugging, the development of algorithms and preparation of data, to be selected from a range of areas. Credit Points: 7 Contact Hours: 3 per week

EET791 COMPUTER PROGRAMMING II Offered: Autumn

Development of the concepts introduced in CST390 to include the full range of features in this language. An introduction to the features of FORTRAN,

Prerequisite: CST390

Contact Hours: 3 per week Credit Points: 7

EET840 SUBSTATIONS & PROTECTION SYSTEMS

Offered: Spring

Insulation co-ordination principles, substation layout and equipment including circuit breakers, current and voltage transformers and their characteristics. An introduction to sequence components and fault calculations. A description of different types of protection systems and their integration with the power system, especially substations. Prerequisite: EET642

Credit Points: 7 Contact Hours: 3 per week

EET860 COMMUNICATIONS TECHNOLOGY 322

Offered: Spring

Broadcast radio and TV, terrestrial and satellite, Specialised broadcast systems, e.g., police, taxi; point to point radio communications; telemetry; switched systems, circuit and packet switching, exchangers, traffic. Use of different frequency ranges, VLF, MF, HF, VHF, UHF and SHF for radio communications. A number of compulsory industrial visits are arranged. Prerequisites: EET570, EET676

Credit Points: 7 Contact Hours: 3 per week

EET870 INDUSTRIAL ELECTRONICS

Offered: Spring

This subject studies a wide range of electronic devices and circuits associated with industrial control systems. A wide range of power switching devices and their applications are studied together with electronic measurement systems and their associated transducers.

Prerequisite: EET570

Credit Points: 7 Contact Hours: 3 per week

EET880 DESIGN

Offered: Spring

The student is introduced to the main concepts of electrical designs and to relevant specifications and standards. Further work is in the form of design projects in which a written report must be submitted. Prerequisites: Major subjects in selected modules Co-requisites: Major modules 1(d) and 2(d) Credit Points: 7 Contact Hours: 3 per week

EET891 ADVANCED COMPUTING TECHNIQUES

Offered: Spring

Applications of computers and microprocessor systems to data collection supervisory and active control functions. Realtime operating systems and software development in both low level languages and appropriate high level language such as C or MODULA 2. Prerequisite: CST390

Credit Points: 7 Contact Hours: 3 per week

ESA310 GEOLOGY

Offered: Autumn

An introduction to geological materials, emphasising chemical concepts and processes. Aspects studied include the origin and constitution of the earth, introductory mineralogy, igneous, sedimentary and metamorphic petrology, study of physical and structural geology, geomorphology, stratigraphy and economic geology. Field excursions as required. Credit Points: 8 Contact Hours: 3 per week

ESA510 MINERALOGY TECHNIQUES Offered: Spring

Fundamental crystallography including crystal systems, forms and symmetry. Stereographic projection of crystals. Systematic treatment of mineral groups, covering aspects of structure, chemistry, properties and uses. Introduction to ore genesis. Techniques of mineral identification.

Credit Points: 8 Contact Hours: 3 per week

ESB101 EARTH SCIENCE IA

Offered: Autumn

Basic geological principles, origin and general constitution of earth and solar-system, global geology, cconomic geology. Practical work includes orthographic and stereographic solution of structural problems and identification of economic minerals. Field excursion (one day) to local areas of interest, Credit Points: 8 Contact Hours: 3 per week

ESB102 EARTH SCIENCE IB

Offered: Autumn

Crystallography; mineralogy; formation, texture and classification of igneous, sedimentary and metamorphic rocks. Practical work includes study of crystal models, mineral and rock specimens. Field excursions (one day) to local areas of interest.

Credit Points: 8 Contact Hours: 3 per week

ESB201 EARTH SCIENCE IIA Offered: Spring

Physical geology, geomorphology, erosion, weathering. Topographic maps and interpretation of land forms. Study of major soil groups and soil formation. Hydrology. Practical work includes exercises based on interpretation of geologic, topographic and orthographic maps. Field excursions as required. Prerequisites: ESB101 or ESB102

Credit Points: 8 Contact Hours: 3 per week

ESB202 EARTH SCIENCE IIB

Offered: Spring

Palaeontology, including classification and nomenclature of major phyla in animal and plant kingdoms. Stratigraphy of Australia, in particular of Queensland. Practical work involves study of fossils and map interpretation. Field excursions as required. Prerequisites: ESB101 or ESB102

Credit Points: 8 Coutact Hours: 3 per week



ESB220 MINERALOGY

Offered: Spring

Basic crystallography. Physical and optical properties of minerals and their origin. Classification of minerals. Systematic treatment of mineral groups in terms of structure, composition, properties, occurrence and use. Common rock-forming minerals, Common 'economic' minerals. Practical work includes examination of crystal models, hand specimen examination and description of minerals, elementary optical examination of minerals in thin and polished sections and grains. Credit Points: 8

Contact Hours: 3 per week

ESB317 OPTICAL MINERALOGY

Offered: Autumn

The theory and method of optical identification of minerals in both transmitted and incident light. Chemistry, structure, properties and occurrence of selected mineral groups. Practical work involves the identification of minerals in thin section, polished section, and grain mounts.

Prerequisite: ESB102

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB313, ESB413; credit may not be retained for more than one of these subjects.

ESB320 MINERAL ASSEMBLAGES

Offered: Autumn

The geological and geochemical cycle. Origin, emplacement and composition of igneous rocks. Weathering processes. Origin and composition of sedimentary rocks and metamorphic rocks. Methods of mineral beneficiation; problems related to mineral assemblages and textures. Practical work: hand specimen examination of rocks and ores. Elementary microscopic examination of thin and polished sections. Exercises in mineral separation.

Prerequisite: ESB220

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB313, ESB413; credit may not be retained for more than one of these subjects.

ESB357 STRUCTURAL GEOLOGY

Offered: Autumn

Stress-strain relationships, rock deformation by brittle fracture and by ductile flow, metamorphic textures; geometric, kinematic and dynamic analysis of folded rocks. Techniques for structural analysis.

Prerequisite: ESB201

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB353; credit may not be retained for both.

ESB367 ECONOMIC MINERAL DEPOSITS Offered: Autumn

The distribution of metalliferous and industrial mineral deposits of economic value, in Australia and the rest of the world. Geological occurrence, genetic models, supply and demand, extraction methods. Laboratory techniques for evaluating mineral deposits.

Prerequisite: ESB101 & ESB102

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB363; credit may not be retained for more than one of these subjects.

ESB397 FIELD TECHNIQUES

Offered: Autumn

Methods used in the accumulation, analysis and interpretation of geological field data. Geological mapping, sampling and presentation of reports. Excursions and day trips to areas of geological interest are assessable by means of a combination of reports, assignments, and examinations.

Prerequisites: ESB101 and/or ESB201

Co-requisites: ESB357 or ESB353

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB397; credit may not be retained for both.

ESB403 GEOCHEMISTRY

Offered: Spring

Distribution of elements in nature. Geochemical associations, mobility and dispersion. Sampling methods and design. Data processing, presentation and interpretation. Preparation of geochemical maps and reports. Practical aspects based on field work in selected localities.

Prerequisite: 12 hrs first level chemistry

Credit Points: 8 Contact Hours: 3 per week

ESB411 EARTH RESOURCES

Offered: Spring

An assessment of known resources and future alternatives. Topics discussed include crustal abundances and geochemical distributions; energy sources; metalliferous and non-metalliferous economic resources; geopolitics, realities of mineral distribution; limits of earth resources, conservation versus exploitation; waste disposal control; environmental pollution; future technological developments and their possible effects on mineral demands.

Credit Points: 8 Contact Hnurs: 3 per week

202 ESB417 IGNEOUS & METAMORPHIC PETROLOGY II

Offered: Spring

The composition, origin, and petrogenesis or igneous rocks, with particular reference to basaltic and calcalkali kindreds. A study of metamorphic processes and facies with emphasis being placed on contact metamorphism. Megascopic and microscopic examination of igneous and metamorphic rocks. Textures and mineralogy are emphasised. Field excursions of short duration are normally required.

Prerequisites: ESB317 or ESB313

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB320, ESB413; credit may not be retained for more than one of these subjects.

ESB437 GEOPHYSICS

Offered: Spring

An introduction to the theory of exploration geophysics. Gravity, magnetic, radiometric, well logging, seismic refraction and reflection, electrical resistivity, induced polarisation and electromagnetic techniques. Practical studies of the main techniques, together with limited field work.

Prerequisites: 3 hrs first level physics and ESB101, ESB102

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB433; credit may not be retained for both.

ESB447 PETROLEUM GEOLOGY Offered: Spring

Origin and physio-chemical characteristics of petroleum (oil and gas). Principles of petroleum generation, migration and accumulation through time and space. Development of structural, stratigraphic combination traps. Reservoir rock characteristics. Use of geophysical, geochemical and radiometric techni-



ques in petroleum exploration and reservoir characterisation. Drilling techniques, well log interpretation and modern seismic-stratigraphic correlation in petroleum exploration and development. Methods of primary, secondary and tertiary oil and gas recovery. Review of economics of petroleum production.

Co-requisite: ESB499

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB603; credit may not be retained for both.

ESB453 APPLIED GEOMORPHOLOGY Offered: Spring

The nature, origin and development of landforms and their relationships to underlying structures. The applied aspects concern problems related to economic alluvial deposits, landslides, coastal erosion, river development and environmental geology. Terrain evaluation by aerial photograph interpretation and satellite imagery is central to the practical work. Prerequisites: ESB201, ESB202

Credit Points: 8 Contact Hours: 3 per week

ESB477 LAND LAW & MINING APPLICATIONS

Offered: Spring

Introduction to English law, legal reasoning and the different legal systems. Contracts, torts and land law. The historical background and political framework of mining law. The legal meaning of 'mine' and 'minerals'. Mining Acts and Miner's Rights. Licensing procedures for prospecting, search and exploration. Mining leases on Crown Lands and mining on private land. The enforcement of mining interests. Petroleum legislation in Australia. Professional ethics. Environmental impact studies. Practical work involves applications for exploration licences, claim and leases.

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB473; credit may not be retained for both.

ESB487 GEOLOGICAL FIELD STUDIES Offered: Spring

An extended excursion (five or more days) with the possible addition of weekend commitments to areas of geological interest. The main emphasis is on mapping. For the extended excursion, students will be required (individually or in groups) to map the geology of an assigned area. Assessment will be based on the production of a geological map to the prescribed scale, together with supporting explanatory notes. Prerequisites: ESB397 or ESB393

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB483; credit may not be retained for both.

ESB497 SEDIMENTOLOGY

Offered: Spring

Principles of sedimentation, including processes of generation, accumulation and redistribution of sedimentary deposits. Sedimentary depositional environments and the role of tectonism and diagenetic processes in redistribution and lithification of sedimentary deposits. Sedimentary basins, their geometric and structural components. Study of primary sedimentary structures and textures, and their application to environmental interpretation. Economic geology as related to sedimentary rocks, including both minerals and energy resources. Prerequisites: ESB317 + ESB201 + ESB202 Contact Hours: 3 per week Credit Points: 8

Note: This subject is not compatible with ESB493. ESB593; credit may not be retained for more than one of these subjects.

ESB513 ECONOMIC GEOLOGY V Offered: Autumn

Detailed studies of the genesis, discovery, exploitation and use of economic materials. The following topics are introduced and references supplied for further reading exploration programs, crustal evolution and mineralisation, ore distribution in space and time, stratiform and stratabound ores, wall rock alteration, gossans, mineral potential of the sea bed, magmatic geochemistry, isotope studies, geothermometry, clay technology. Additional miscellaneous topics are dealt with in seminars. Prerequisite: ESB363

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with ESB517; credit may not be retained for both.

ESB517 MINERAL EXPLORATION

Offered: Autumn

An introduction to a range of relevant aspects and references to develop an awareness of their importance, and to provide a foundation for further development during the students' future professional lives. The aspects introduced are: exploration programs, crustal evolution and mineralisation, ore distribution in space and time, wall rock alteration, gossans, mineral potential of the sea bed, isotope studies, geothermometry, clay technology. Additional topics are dealt with in seminars.

Prerequisite: ESB367

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB513, credit may not be retained for more than one of these subjects.

ESB519 GEOLOGY FOR ENGINEERING Offered: Autumn

An introduction to the basic principles and theories of geology, emphasising the way in which mineralogy and petrology, geologic structures, geomorphology and groundwater interact with, and are related to engineering design and construction. The engineering properties of rock are considered, and the effect of geologic hazards on engineering construction are examined. The course incorporates a number of case histories to demonstrate and extend the relevance of various aspects of geology to the civil engineer's workplace.

Credit Points: 6 Contact Hours: 3 per week

ESB520 APPLIED GEOCHEMISTRY

Offered: Autumn

Techniques for establishing regional geochemical patterns. The application of geochemistry to the discovery of ore deposits and to the solution of environmental problems. Primary and secondary dispersion patterns. Optimum design of geochemical surveys and statistical rationalisation of geochemical data. The application of multipurpose regional geochemical mapping to land use evaluation and environmental impact studies. The relation of selected trace elements to health and disease in plants and animals. Practical work includes an industry oriented field project requiring several days of field work and also case history assignments based upon environmental and exploration problems.

Prerequisites: ESB321 or ESB421 or ESB403 Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB533; credit may not be retained for more than one of these subjects.



ESB523 HYDROGEOLOGY

Offered: Spring

A continuation of ESB443, with the emphasis on practical aspects. The analysis of pumping tests made under a wide variety of geological conditions is studied, together with flow net analysis and the prediction of safe long term pumping rates.

Prerequisite: ESB443

Credit Points: 6 Contact Hours: 3 per week Note: This subject is not compatible with ESB527; credit may not be retained for both.

ESB527 HYDROGEOLOGY

Offered: Spring

Introduction to the hydrological cycle, groundwater, aquifers, chemistry and usage of water. Exploration, evaluation and exploration of aquifers is followed by assessment of resources, recharge problems and contamination including sea water intrusion. Practical work includes evaluation of aquifers by pump tests, flow nets finite element analysis; seepage problems and dewatering of mines and excavations.

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB443, ESB523; credit may not be retained for both.

ESB533 EXPLORATION GEOCHEMISTRY

Offered: Autumn

Techniques for establishing regional geochemical patterns. The application of geochemistry to the discovery of ore deposits and to environmental problems. A field project is a major component of the practical work. Students are required to attend appropriate field trips which may involve one or two overnight/weekend commitments.

Prerequisite: ESB403

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with ESB520; credit may not be retained for both.

ESB543 PETROLOGY V

Offered: Autumn

Extension of the concepts studied in ESB413 with emphasis on the less abundant rock types. Assignments and a seminar form an integral part of this unit. Practical work includes the study of selected rock suites. Field excursions of short duration as required. **Prerequisite:** ESB413

Credit Points: 6 Contact Hours: 3 per week Note: This subject is not compatible with ESB547; credit may not be retained for both.

ESB547 IGNEOUS & METAMORPHIC PETROLOGY III

Offered: Autumn

An extension of the information covered in ESB417 with an emphasis on the economically important, but less abundant, rock types. Igneous petrology concentrates on concepts involving rock suites. Metamorphic petrology concentrates on regional aspects. The study of suites and the interpretation of petrographic features is emphasised. Field excursions of short duration are normally required.

Prerequisite: ESB417 or ESB413

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB543; eredit may not be retained for both.

ESB563 PROJECT V

Students are required to produce an original detailed geological map of an area, prepare a preliminary geological report, and deliver a seminar. Extensive field work is required. Project V must be followed by Project VI (ESB663).

Prerequisites: ESB413 + ESB493 + ESB353 + ESB393 + SVB303

Co-requisites: ESB533, ESB633

Credit Points: 6 Contact Hours: 3 per week Note: This subject is not compatible with ESB687; credit may not be retained for both.

ESB573 FIELD EXCURSIONS V

Offered: Autumn

An extended (five or more days) excursion or a series of weekend excursions to selected areas of geological interest. Students must submit assignments based on these excursions.

Prerequisite: ESB483

Credit Points: 4 Contact Hours: 2 per week Note: This subject is not compatible with ESB687, ESB577; credit may not be retained for more than one of these subjects.

ESB577 FIELD EXCURSIONS V

Offered: Autumn

An extended (five or more days) excursion, with the possible addition of weckend commitments, to areas of petrologic interest with the emphasis on igneous and metamorphic petrology together with related mineralisation. Assessed on the bases of field attitude, formal examination, and the production of an individually original written report.

Prerequisites: ESB417 + ESB487

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB573; credit may not be retained for both.

ESB593 SEDIMENTARY PETROLOGY Offered: Autumn

Provenance, lithification and diagenesis of sediments. Sandstones: principles of classification and the concept of maturity, petrology, diagenesis. Carbonate rocks: composition, classification and environment of deposition of recent and ancient carbonates. Diagenesis of carbonate sediments. Dolomites and other carbonate rocks. Characteristics and origin of other biogenic and chemical sedimentary rocks such as chert, phosphorite and ironstone.

Prerequisites: ESB493 + ESB313

Credit Points: 6 Contact Hours: 3 per weck Note: This subject is not compatible with ESB497; credit may not be retained for both.

ESB597 STRATIGRAPHY

Offered: Autumn

Historical geology and principles of stratigraphy. Stratigraphic subdivision and nomenclature. The facies concepts and their application to regional stratigraphic correlation. Aspects of transgression and regression (sea-level changes) through geologic time. Principles of micro-palaeontology and palynology, and their application to bio-stratigraphic correlation and basin analysis. Review of stratigraphy of Australia, based on the tectonic evolution of the continent. Field and laboratory work as required.

Prerequisites: ESB201 + ESB202

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB493; credit may not be retained for both.

ESB603 PETROLEUM & COAL GEOLOGY Offered: Spring

Regional geophysical methods relevant to petroleum and coal exploration; drilling techniques and geophysical and lithological well logging as applied



to petroleum and coal; qualitative well log interpretation and correlation; subsurface mapping techniques and sedimentary basin interpretation. Coal properties, classification genesis and analysis; hydrocarbon generation from coal and oil shale. Coalfield geology. Oil field development and production; methods of primary, secondary and tertiary recovery. Petroleum and coal production and economics. Coal hand specimen study and microscopy. Short field excursions as required.

Prerequisites: ESB443 and ESB493

Credit Points: 10 Contact Hours: 5 per week Note: This subject is not compatible with ESB477, ESB607; credit may not be retained for more than one of these subjects.

ESB607 COAL GEOLOGY

Offered: Spring

Coal properties, classification genesis and analysis; hydro-carbon generatiou from coal and oil shale. Coalfield geology. Basin analysis and subsurface mapping techniques, coal production and economics. Coal hand specimen study and microscopy. Field excursions of short duration as required, together with practical assignments.

Prerequisites: ESB101 + ESB102 + ESB201 + ESB202

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB603; credit may not be retained for both.

ESB613 MINERAGRAPHY & MINING GEOLOGY

Offered: Spring

Methods of mineral search, ore prediction, exploratory drilling and mining geology. Mineral economics: fiscal conditions, financing, development and production costing. Principles of sampling and evaluation, processing of mapping, drill log and assay data. Ore reserve assessment and classification. Mining methods, grade control, comminution and beneficiation. Mineragraphy: optical properties of ore minerals, theory of reflected light, growth structures, deformation, twinning and annealing: textural interpretation, gossans. Detailed examination of ore mineral suites and host rocks. Field excursions as required.

Prerequisite: ESB363

Credit Points: 6 Contact Hours: 3 per week Note: This subject is not compatible with ESB617; credit may not be retained for both.

ESB617 MINING GEOLOGY

Offered: Spring

Search methods for economic materials, ore prediction, reserve assessment techniques. Interpretation of drilling information. Mining economics, case studies. Field excursions as required.

Prerequisite: ESB367

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB613; credit may not be retained for both.

ESB633 EXPLORATION GEOPHYSICS

Offered: Autumn

The reduction and manipulation of geophysical data, and their interpretation in geological terms. Also included are field data acquisition and laboratory analogue modelling. Experience in a variety of geophysical methods is gained during a field excursion.

Prerequisites: ESB433 or ESB437

Credit Points: 8 Contact Hours: 3 per week

ESB643 STRUCTURAL GEOLOGY VI

Offered: Spring

Geotectonics. Structure of the earth's crust. World structural patterns. Salt tectonics. Deformation of lineations in folded rocks. Folding of inclined surfaces, unconformities, superimposed folding. Structural methods for exploration.

Prerequisite: ESB353

Credit Points: 6 Contact Hours: 3 per week Note: This subject is not compatible with ESB647; credit may not be retained for both.

ESB647 STRUCTURAL GEOLOGY & GEOTECTONICS

Offered: Spring

Geotectonics. Structure of the earth's crust. World structural patterns. Salt tectonics. Deformation of lineations in folded rocks. Folding of inclined surfaces, unconformities, superimposed folding. Structural methods for exploration.

Prerequisite: ESB357

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB643; credit may not be retained for both.

ESB653 ENGINEERING GEOLOGY Offered: Spring

The application of geology to engineering, including an introduction to soil and rock mechanics, geological factors influencing engineering design and construction and the use of geological materials in construction. Foundation conditions and site investigation techniques. Case historics of various construction projects, including dams, bridges, buildings, roads, railways, tunnels and slopes. Field excursions to appropriate construction sites.

Prerequisites: ESB413 + ESB493 + ESB353 or ESB417 + ESB497 + ESB357

Credit Points: 8 Contact Hours: 3 per week

ESB663 PROJECT VI

Offered: Spring

The detailed analysis and interpretation of samples and information resulting from work done in ESB563. Preparation and presentation of a final detailed report. Some field work is required.

Prerequisite: ESB563

Credit Points: 8 Contact Hours: 4 per weck Note: This subject is not compatible with ESB687; credit may not be retained for both.

ESB673 FIELD EXCURSIONS VI

Offered: Spring

An extended (five or more days) excursion or a series of weekend excursions to selected areas of geological interest. Students must submit assignments based on these excursions.

Prerequisite: ESB573 Credit Points: 4

Note: This subject is not compatible with ESB677; credit may not be retained for both.

ESB677 FIELD EXCURSIONS

Offered: Spring

An extended (five or more days) excursion, with the possible addition of weekend commitments, to areas of geological interest, the emphasis being on economic geology. Students will be assessed on the bases of field attitude, the production of their individual original written report, and any other requirements of the examiner (c.g. oral or written examination, seminar, etc.).

Prerequisites: ESB577 or ESB573

Credit Points: 8

Note: This subject is not compatible with ESB673; credit may not be retained for both.



ESB687 GEOLOGICAL INVESTIGATIONS Offered: Spring

Students are required to produce an original detailed map of a designated area, collect representative samples, observe and collate relevant information (e.g., structures, mineralisation, lithological variation, geomorphic variations, etc.). Appropriate laboratory and office work follows from the initial field work. Assessment based on the production of a final detailed report which will include maps. Each student is assigned to an adviser.

Prerequisite: ESB357 + ESB517 + ESB547 + ESB497 + ESB437

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with ESB663, ESB563; credit may not be retained for more than one of these subjects.

ESB693 MINING PROPERTY EVALUATION

Offered: Spring

Solutions of problems involving the concepts of present value of money, place value, unit value, recoverable value, cash flow, discounted cash flow, DCFROI, payback, discounted payback, net present value, depreciation, depletion, sinking fund, annuity, diminishing annuity, compound interest, taxation and its effect on ore reserves, price forecasting, metal marketing, sampling and tonnage grade calculation, ore reserves and sensitivity analyses.

Prerequisite: MNB025

Credit Points: 4 Contact Hours: 2 per week

ESP700 PROJECT

Offered: Full Year

All students undertaking Honours are required to select and undertake, in consultation with a supervisor, a substantial project in an appropriate area. Each project will be assessed on the basis of an extensive written report and an oral presentation. Credit Points: 20 per semester

EST219 ENGINEERING GEOLOGY

Offered: Spring, evening only

A brief introduction to the definitions and principles of geology, an appreciation of the range of rock types and the effects of weathering leading to soil formation. Identification of common mineral and rock types, the occurrence and nature of rock defects or discontinuities; the flow and control of groundwater by stratigraphy; rock structure and surface profile; and the effects of rivers and coastal wave action in erosional/sedimentary cycles.

Credit Points: 7 Contact Hours: 3 per week

IFB880 PROJECT

Offered: Autumn

Each student will undertake a project requiring research, investigation or design of some topic or problem of interest to the profession.

Prerequisite: Successful completion of subjects totalling not less than 120 hours of weekly contact time Credit Points: 12

Contact Hours: 3 per week

IFP222 PROJECT

Offered: Spring

This subject aims at developing a student's capacity for managing his/her own work and for persistence within a circumscribed area. The project will normally involve presentation of a seminar in addition to the preparation of a full report. The topic selected will have regard to available expertise and selected field of special interest to the candidate. In particular, it is expected that project work will be conducted across the wide variety of applications in areas serviced by the course. Most projects will be work-related and will have associate supervision from commercial/industrial souces. It is envisaged that, where appropriate, projects may be jointly supervised by staff of the Schools or Departments involved in the course.

Contact Hours: 2 per week Credit Points: 8

INB099 ENGLISH FOR ACADEMIC PURPOSES

Offered: Autumn

Written and oral English for tertiary purposes. Extension of structure and grammatical knowledge as well as vocabulary.

Prerequisite: Approval from Dean of Faculty Credit Points: 9 Contact Hours: 3 per week

INB100 PRACTICE 1 (INJ232)

INB150 PRACTICE 2 (INJ232)

INB200 PRACTICE 3 (CS.I128)

INB201 PRACTICE 3 (ISJ210)

INB202 PRACTICE 3 (ISJ243)

INB250 PRACTICE 4 (CSI128)

INB251 PRACTICE 4 (ISJ210)

INB252 PRACTICE 4 (ISJ243)

Offered: Autumn, Spring

Designed to co-ordinate the practical aspects of the lecture material presented each semester so that students both develop essential practical skills and benefit from cross fertilisation of the individual subjects. The importance of all aspects of personal communication will be emphasised throughout and students will also be strongly encouraged to perceive the social implications of computing activities and systems.

Co-requisite: Core topics in appropriate semester Credit Points: 12 Contact Hours: 4 per week

INB105 PRACTICE 1A (INJ232)

- INB110 PRACTICE 1B (IN.1232)
- INB125 PRACTICE 1A (IFJ222)
- INB130 PRACTICE 1B (IFJ222)
- INB155 PRACTICE 2A (INJ232)
- INB160 PRACTICE 2B (INJ232)
- INB180 PRACTICE 2B (IFJ222)
- INB205 PRACTICE 3A (CSJ128)
- INB206 PRACTICE 3A (ISJ210)
- INB207 PRACTICE 3A (ISJ243)
- INB210 PRACTICE 3B (CSJ128)
- INB211 PRACTICE 3B (ISJ210)
- INB212 PRACTICE 3B (ISJ243)
- INB225 PRACTICE 3A (CSJ128)
- INB255 PRACTICE 4A (CSJ128)
- INB256 PRACTICE 4A (ISJ210)
- INB257 PRACTICE 4A (ISJ243)
- INB260 PRACTICE 4B (CSJ128)
- INB261 PRACTICE 4B (ISJ210)
- INB262 PRACTICE 4B (ISJ243)
- INB275 PRACTICE 4A (IFJ222)
- INB281 PRACTICE 4B (IFJ222)

Offered: Autumn, Spring

Designed to co-ordinate the practical aspects of the fecture material presented each semester so that stu-



dents both develop essential practical skills and benefit from cross fertilisation of the individual subjects. The importance of all aspects of personal communication will be emphasised throughout and students will also be strongly encouraged to perceive the social implications of computing activities and systems.

Co-requisites: Core topics in appropriate semester Credit Points: 6 Contact Hours: 2 per week

INB270 DATA COMMUNICATIONS

Offered: Autumn, Spring

The subject describes the role of data communications and on-line systems in a modern computing environment and examines the design, implementation and management of data communications networks. It covers basic concepts and terminology; the International Standards Organisation reference model for open systems interconnection; communications equipment; data communications network design and management; network architectures; local area networks; Telecom facilities; transaction processing systems; distributed processing systems.

Prerequisite: CSB281

Credit Points: 9 Contact Hours: 3 pcr week

INB285 DATA COMMUNICATIONS

This subject describes the role of data communications in a modern computing environment. It examines in some detail, aspects of the design, implementation and management of data communications networks. Topics to be discussed include basic telecommunications concepts, communications protocols, the ISO Reference Model for Open Systems Interconnection, wide area networks, local area networks and communications network security.

Prerequisite: CSB281 OR CSB181 OR CSB155 Credit Points: 12 Contact Hours: 4 pcr week

INB300 PROJECT WORK

Offered: Autumn, Spring

Students, either individually or in small groups, undertake a substantial 12 month project relevant to the needs of industry and designed to give insight into industrial requirements. Each student/group is supervised by a member of staff. In addition, there is a teaching contribution - of one hour per week throughout the first semester from the School of Communication - designed to develop the student's communication skills.

Prerequisite: Successful completion of at least the equivalent of two-thirds of either the Bachelor of Applied Science (Computing) or Bachelor of Business (Computing) AND CMB104

Credit Points: 12 per semester Contact Hours: 4 per week

INN200 RESEARCH METHODOLOGY

Offered: Autumn

Topic of research by agreement between the student and a Faculty staff member acting as project supervisor. Students must attend lectures/seminars of approximately 1 hour every two weeks (on average). They will also engage in literature search and generally other design aspects of their research project.

Credit Points: 12 Contact Hours: Not applicable

INN210 HONOURS PROJECT II

Offered: Spring

This is a continuation and completion of the research project initiated for the subject INN200 Research Methodology.

Prerequisite: INN200

Credit Points: 12 Contact Hours: Not applicable

INN300 MINOR PROJECT

INN301 MINOR PROJECT

INN302 MINOR PROJECT

INN303 MINOR PROJECT

Offered: Autumn, Spring

Students may undertake a number of minor projects so that they can pursue specialised areas of interest, or broaden their knowledge in areas of relevance to their employment. Topics are to be decided by agreement between the student and a Faculty staff member acting as supervisor.

Credit Points: 12 Contact Hours: 3 per week

INN310 ADVANCED DATA

COMMUNICATIONS

Offered: Spring

This subject deals with advanced material in data communications. Topics covered include data communications network design and management (techniques and case studies); performance modelling of communications networks; comparative evaluations of data communications products and services; data communications software design and implementation; provision of integrated communications services (voice, data, video, etc.); network security; communications industry policy (e.g. deregulation).

Prerequisite: INB270 (or equivalent)

Credit Points: 12 Contact Hours: 3 per week

INN400 MAJOR PROJECT-PART 1

Offered: Autumn

This subject comprises the first semester of a two semester subject and enables students to pursue a specialised topic in greater depth than is possible in a single semester. Topics are to be decided by agreement between the student and a Faculty member acting as supervisor.

Prerequisite: Completion of eight subjects of the Master of Applied Science (Computing)

Credit Points: 12 Contact Hours: 3 per week

INN450 MAJOR PROJECT-PART II

Offered: Spring

This subject forms the second half of the major project component of the Master of Applied Science (Computing) course, and is a continuation of the same topic commenced in INN400.

Prerequisite: INN400 Major Project-Part 1 Credit Points: 12 Contact Hours: 3 per week

INP270 DATA COMMUNICATIONS

Offered: Autumn, Spring

This subject describes the role of data communications in a modern computing environment. It examines in some detail, aspects of the design, implementation and management of data communications networks. Topics to be discussed include basic telecommunications concepts, communications protocols, the ISO Reference Model for Open Systems Interconnection, wide area networks, local area networks and communications network security.

Prerequisite: CSP112 OR ISP100

Co-requisite: ISP100 (for students in the Graduate Diploma in Commercial Computing) Credit Points: 12 Contact Hours: 3 per week

Credit Points: 12 Contact Hours: 3 per week

ISB101 APPLICATION SYSTEMS

Offered: Autumn, Spring

This subject examines the way business operates and the nature of business application systems. It also



examines the features of some non-business applications. On completion of the subject, students will be able to describe the generalised applications needed to support of business; be aware of the need for custom designed systems; and be aware of career prospects in the information technology industry in Australia, Credit Points: 9 Contact Hours: 3 per week

ISB102 REPRESENTATION OF INFORMATION

Offered: Autumn

This subject will provide students with the ability to develop an abstract model of a real situation, being the first step in the process of creating a computerbased information system. The subject therefore forms a basis for the subsequent development of the concepts associated with the design and implementation of information systems.

Credit Points: 9 Contact Hours: 3 per week

ISB113 PRINCIPLES OF INFORMATION MANAGEMENT

Offered: Autumn

This subject serves as an introduction to the core elements of information management and emphasises information as an essential organisational resource required by management to meet organisational goals and objectives. The subject examines the nature and creation of information, storage media, organisation for storage, retrieval techniques, transfer, effects of internal and external environments, security and obsolescence.

Credit Points: 9 Contact Hours: 3 per week

ISB156 MANAGEMENT INFORMATION SYSTEMS

Offered: Spring

This subject will examine the principles and technologies involved in the collection, analysis and presentation of information to aid management decision making. It will provide an overview of effective management information systems; and cover decision making underlying effective MISs; computer hardware and software for effective MISs; development, implementation and control of effective MISs. It will include a case study on major subsystems comprising a MIS.

Credit Points: 12 Contact Hours: 3 per week

ISB180 COMPUTER APPLICATIONS

Offered: Spring

This subject will provide a basic understanding of commercial microcomputer systems as they apply to building and exposure to microcomputer applications, specifically a spreadsheet and a database package. This will include the design and implementation of spreadsheet models and creation of reusable templates; the use of a database management system (DBMS) including design of data files, creation of data views and reports; an introduction to problem definition, solution design and modular programming in conjunction with the DBMS.

Credit Points: 4 Contact Hours: 2 per week

ISB182 REPRESENTATION OF INFORMATION

Offered: Autumn

This subject will provide students with the ability to develop an abstract model of a real situation, being the first step in the process of creating a computerbased information system. The subject therefore

forms the basis for the subsequent development of the concepts associated with the design and implementation of information systems.

Credit Points: 9 Contact Hours: 3 per week

ISB201 INFORMATION SYSTEMS ANALYSIS & DESIGN I

Offered: Autumn, Spring

This subject provides a grounding in the methodology and techniques of systems analysis and design. Prerequisites: CSB101, ISB102

Credit Points: 9 Contact Hours: 3 per week

ISB202 DATABASE AND PROCEDURAL LANGUAGES

Offered: Autumn, Spring

The fundamentals and syntax of a procedural computer programming language (eg COBOL) and its use in the implementation of information systems (in particular database systems). Apart from developing techniques in commercial programming, the subject provides an appreciation of the advantages and disadvantages of a database approach.

Prerequisite: CSB110

Credit Points: 9 Contact Hours: 3 per week

📓 ISB203 ADVANCED DATABASE

Offered: Autumn

This subject covers relational and network database architectures and the facilities provided by a database management system. The issues in the database area which impinge on online systems design will be discussed and students will be introduced to the relationship between database management systems and 4GL software.

Prerequisite: ISB102

Credit Points: 9 Contact Hours: 3 per week

ISB210 INFORMATION SYSTEMS ANALYSIS & DESIGN II

Offered: Autumn, Spring

This subject teaches a complete method for developing an Information System, from initial analysis of the problem through to a working computer system. Emphasis is given to the practical application of the techniques, using a wide range of real life problems. Prerequisite: ISB201

Credit Points: 9 Contact Hours: 3 per week

ISB214 THE INFORMATION RESOURCE Offered: Spring

This subject covers the management of information within an organisation, with some consideration of the problems associated with sharing information between organisations and the identification and targeting of information users as clients. Prerequisite: MNB103

Credit Points: 9 Contact Hours: 3 per week

ISB215 EXTERNAL SOURCES OF INFORMATION

Offered: Autumn

This subject encompasses the scanning of the environment using various information sources, technologies, avenues and methodologies. It will also provide practical skills including online searching. It will cover the definition of external information sources (personal and recorded); types of information provided by Government sources, industrial sources, academic sources and business sources; the publishing industries; online searching techniques; storage and retrieval media; computer conferencing.

Credit Points: 9 Contact Hours: 3 per week



ISB216 POLITICAL & SOCIAL ASPECTS OF INFORMATION TECHNOLOGY

Offered: Autumn

This subject introduces the major political and legal aspects of information technology. Government policies relevant to the information industry will be examined and comparisons drawn between policies adopted by different countries. The social consequences of technological convergence with particular emphasis on the changing nature of work and the evolution of the information professions will be discussed.

Credit Points: 9 Contact Hours: 3 per week

ISB219 ADVANCED COBOL

Offered: Spring

This subject provides students with the opportunity of gaining greater proficiency in writing complex commercial programs in the COBOL language. A major programming project will be implemented to facilitate the above.

Prerequisite: ISB202

Credit Points: 9 Contact Hours: 3 per week

ISB263 INTRODUCTION TO COMPUTERS & INFORMATION SYSTEMS

Offered: Spring

This subject is designed to enable students to identify the necessary computing concepts involved in the design and use of information systems; to apply computing concepts in the area of nursing practice; and to demonstrate competence in using systems creation and retrieval techniques via a computer-based project. **Credit Points: 6 Contact Hours:** 2 per week

ISB281 INFORMATION SYSTEMS ANALYSIS & DESIGN I

Offered: Autumn, Spring

This subject provides a grounding in the methodology and techniques of systems analysis and design; and aims to develop competence in techniques and application of methodologies of information systems development.

Prerequisites: CSB155 + ISB282

Credit Points: 12 Contact Hours: 3 per week

ISB283 DATABASE & PROCEDURAL LANGUAGES

Offered: Autumn, Spring

This subject introduces the fundamentals and syntax of a procedural computer programming language (e.g. COBOL) and examines its use in the implementation of information systems (and in particular database systems). Apart from developing techniques in commercial programming, the subject provides an appreciation of the advantages and disadvantages of a database approach.

Prerequisite: CSB280

Credit Points: 12 Contact Hours: 3 per week

ISB290 INFORMATION SYSTEMS ANALYSIS & DESIGN II

Offered: Autumn, Spring

This subject extends coverage of techniques of analysis and design to further develop competence in methodologies, skills and techniques used by systems analysts. It will teach a complete method for developing an information systems, from initial analysis of the problem through to a working computer system. Emphasis will be given to the practical application of the techniques, using a wide range of real life problems.

Prerequisites: ISB281 OR ISB492

Credit Points: 12 Contact Hours: 4 per week

ISB301 ADVANCED INFORMATION SYSTEMS

Offered: Autumn

This subject introduces students to the concept and practice of Decision Support Systems (DSS). It covers foundations architecture and developing DSS; the DSS environment, applications of DSS and the role of DSS in an organisation; end-users and DSS; human factors in DSS; DSS and Management Information Systems; intelligent DSS.

Prerequisite: ISB281

Credit Points: 9 Contact Hours: 3 per week

ISB302 DATABASE MANAGEMENT

Offered: Autumn

The subject focuses on the practical issues associated with the implementation and management of the database designs developed in previous subjects. It specifically addresses issues such as relational design and the performance and tuning of databases, as well as control issues such as integrity. It is intended to provide students with an appreciation of some of the more significant commercial implementations of database architectures.

Prerequisite: ISB283

Credit Points: 9 Contact Hours: 3 per week

ISB303 OFFICE INFORMATION SYSTEMS Offered: Autumn, Spring

This subject examines the development and implementation of information systems in the office context. It includes an assessment of the computer hardware, software and telecommunications products available to support the automated office. The subject is intended to extend students' competence in the design and management of data communications networks and to examine techniques and systems contributing to automation of the modern office.

Prerequisite: INB270 OR INP270 Credit Points: 9 Contact Hours: 3 per week

ISB305 PROJECT

Offered: Spring

Students, either individually or in small groups, undertake a substantial six month project relevant to the needs of industry and designed to give insight into industrial requirements. Each student, or group or students, undertakes a different project and is supervised generally by a member of staff who provides guidance throughout the duration of the project.

Prerequisite: Successful completion of at least the equivalent of two-thirds of the normal course program and CMB104 OR ISB492

Credit Points: 12 Contact Hours: 4 per week

ISB313 EXPERT INFORMATION SYSTEMS

Offered: Spring

This subject examines the role of expert systems in the commercial area and their impact on business information systems; provides an understanding of how expert systems could be used in the development of advanced business information systems; aud gives some practical experience in developing and implementing information systems containing such techniques; includes discussion on social implications of expert systems.

Prerequisite: ISB301

Credit Points: 9

Contact Hours: 3 per week



ISB314 INFORMATION SYSTEMS MANAGEMENT

Offered: Spring

This subject is designed to develop a knowledge of the functions and practices of management in a computer installation, and to give competence in the evaluation and acquisition of a computer system. It will cover the data processing management process; criteria and techniques for sclecting computer hardware, software and services; the RFP, project and operations management; site selection, and evaluation of computing contracts.

Prerequisite: Completion of two-thirds of the Bachelor of Business (Computing) course

Credit Points: 9 Contact Hours: 3 per week

ISB316 INFORMATION SUPPORT SYSTEMS

Offered: Spring

This subject examines the computer data base environment and the organisational superstructure around it as one coherent unit. Students will be introduced to issues varying from planning and administering the information centre to understanding the politics and mechanics of information centre implementation and its interaction with the organisation. **Prerequisite:** ISB203

Credit Points: 9 Contact Hours: 3 per week

ISB317 SPECIAL TOPIC - INFORMATION MANAGEMENT

Offered: Spring

This subject will cover at each offering aspects of information management of specific interest at that time. The subject makes allowance for significant developments or emphasis in information management not included in the remainder of the course program.

Prerequisite: To be advised

Credit Points: 9 Contact Hours: 3 per week

ISB318 STRATEGIC INFORMATION MANAGEMENT

Offered: Spring

This subject integrates all learning occurring throughout the Information Management degree in the context of the working environment. The importance of strategic planning by organisations and the contribution of the information manager to this process is stressed. The subject covers methods of intelligence analysis and environmental scanning in support of strategic planning. The value of information to the strategic positions being adopted by the organisations is also covered.

Prerequisite: ISB214

Credif Points: 9 Contact Hours: 3 per week

ISB382 MICROCOMPUTER APPLICATIONS

Offered: Spring

This subject aims to provide a basic understanding of commercial microcomputer systems as they apply to Science. It includes an introduction to three major microcomputer applications; the design and implementation of spreadsheet models and creation of reusable templates; the use of a database management system (DBMS) including design of data files, creation of data views and reports; an introduction to problem definition, solution design and modular programming in connection with the DBMS; understanding the basic capabilities of word processing packages and their applications.

Credit Points: 9 Contact Hours: 3 per week

ISB385 MICROCOMPUTER SOFTWARE APPLICATIONS

Offered: Autumn, Spring

This subject is designed to provide a basic understanding of commercial microcomputer systems as they apply to Applied Science. It will include an introduction to three major microcomputer applications; the design and implementation of spreadsheet models and creation of reusable templates; the use of a database management system (DBMS) including design of data files, creation of data views and reports; an introduction to problem definition, solution design and modular programming in conjunction with the DBMS; and an understanding of the basic capabilities of word processing packages and their applications. **Credit Points: 4 Contact Hours: 2** per weck

ISB392 BUSINESS COMPUTING Offered: Autumn, Spring

This subject is designed to provide an understanding of commercial computing, its terminology, hardware and software components; familiarity with specific electronic data processing applications, an ability to design a simple business system and an ability to deseribe manipulation of information to produce a desired result; an exposure to microcomputer applications, specifically a spreadsheet package; and an introduction to information analysis techniques and database design concepts.

Credit Points: 12 Contact Hours: 4 per week

ISB393 COMPUTER BASED INFORMATION SYSTEMS

Offered: Spring

The subject is designed to introduce engineering students to commercial computer applications. Some time will be spent on introducing systems concepts, file management and database systems. As practical work, the combination of database/spreadsheet package 'VP-Planner' has been selected.

Credit Points: 4 Contact Hours: 3 per week

ISB492 COMPUTERISED ACCOUNTING SYSTEMS

Offered: Autumn, Spring

This subject is designed to introduce students planning a career in accounting to the nature and operation of computerised accounting systems. Students will study the basic concepts underlying such systems, features of common applications (eg general ledger, sales) and the process of analysing and designing such systems. Practical experience in the use of the SYBIZ microcomputer accounting package will be provided. Prerequisite: ISB392

Credit Points: 12 Contact Hours: 4 pcr week

ISB493 BUSINESS COMPUTER PROGRAMMING

Offered: Autumn

This subject introduces COBOL as a business programming language and develops competence in modern commercial programming techniques. It examines programming principles, structured design, fundamentals of COBOL, commercial data processing systems, algorithms for business applications, data structures and file processing. It includes practical projects in COBOL on HP3000 or VAX.

Prerequisites: CSB155, ISB392

Credit Points: 9 Contact Hours: 4 per week Note: This subject is not compatible with CSB306; credit may not be retained for both.



ISB998 SPECIAL TOPIC - BUSINESS COMPUTING

ISB999 SPECIAL TOPIC - BUSINESS COMPUTING

Offered: Spring

These subjects are designed to allow for the significant development of or emphasis in business computing not dealt with in other course subjects. Selected topics and study areas will be offered as required and when the necessary expertise is available. See School announcements for full details of special topics being offered. **Prerequisite:** See School announcements

Prerequisite: See School announcementsCredit Points: 9Contact Hours: 3 per week

ISN100 INFORMATION SYSTEMS I

Offered: Spring

This subject deals with advances in information system development approaches and techniques. It examines the theoretical basis underlying current approaches to decision support. A special focus is on the impact on information systems development of increased user involvement.

Prerequisite: ISB201 (or equivalent)

Credit Points: 12 Contact Hours: 3 per week

ISN156 MANAGEMENT INFORMATION SYSTEMS

Offered: Spring

This subject examines the principles and technologics involved in the collection, analysis and presentation of information to aid management decision making. It provides insight into current principles and technology appropriate to effective practice in the areas of Managerial Accounting and Finance.

Credit Points: 12 Contact Hours: 3 per week

ISN300 INFORMATION SYSTEMS II

Offered: To be advised

This subject provides an advanced treatment of contemporary issues of information system development. It deals particularly with the issues of development of corporate information systems.

Prerequisite: ISN100

Credit Points 12 Contact Hours 3 per week

ISP100 THE COMPUTER SYSTEM

Offered: Autumn

This subject is designed to provide an overview of the computer as a tool to be applied to a variety of problems concentrating on applications in commerce; to develop the perception for the process necessary in systems development: software engineering; and to develop skills in program development and a basic competence in algorithm development and implementation using PASCAL. It will cover computer hardware and software; an introduction to software engineering; computational linguistics; algorithm development and implementation in PASCAL.

Credit Points: 12 Contact Hours: 3 per week

ISP101 DATA DESIGN & PROCESSING

Offered: Autumn

This subject is designed to introduce the theory of data modelling and the techniques associated with development of database solutions for a variety of information problems and in conjunction with the above, to familiarise students with modern post-procedural approaches to database retrieval and manipulation.

Co-requisite: ISP100 OR CSP112

Credit Points: 12 Contact Hours: 3 per week

ISP113 PRINCIPLES OF INFORMATION MANAGEMENT

Offered: Autumn

This subject serves as an introduction to the core elements of information management and emphasises information as an essential organisational resource required by management to meet organisational goals and objectives. The subject examines the nature and creation of information, storage media, organisation for storage, retrieval techniques, transfer, effects of internal and external environments, security and obsolescence.

Credit Points: 12 Contact Hours: 3 per week

ISP200 SYSTEMS ANALYSIS & DESIGN

Offered: Autumn, Spring

This subject is designed to give students an understanding of methodologies for undertaking the development of a computer-based business system; to develop competence in the use of a number of techniques of systems analysis and design; to develop understanding of design considerations related to important business application areas; and to extend the understanding of the application of data modelling. Prerequisite: ISP101

Credit Points: 12 Contact Hours: 3 per week

ISP301 ADVANCED DATABASE

Offered: Spring

On completion of this subject, students should be able to accomplish the following: discuss the functions of a DBMS; describe the relational and network approaches to database construction; describe one DBMS in detail; design a database to support the outputs required of some information system; distinguish between databases and knowledge bases, and describe the features expected of a 4GL and how they facilitate the use of prototyping.

Prerequisite: ISP101

Prerequisite/Co-requisite: ISP400 (for students in the Graduate Diploma Commercial Computing) Credit Points: 12 Contact Hours: 3 per week

ISP303 PROGRAMMING

Offered: Autumn

This subject is designed to develop: advanced algorithms and implement these algorithms; structured program design techniques for commercial applications; practical aspects of program testing, debugging and style; and competence in the 'C' programming language. The subject will cover stmctured program design (top-down development); advanced data structures and algorithm development; and sound program development, testing and debugging using Pascal and C. It will include practical work on VAX, PCs or HP9000.

Prerequisites: ISP100 and ISP101 Credit Points: 12 Contact Hours: 3 per week

図 ISP313 EXPERT INFORMATION SYSTEMS

Offered: Spring

This subject examines the role of expert systems in the commercial area and their impact on business information systems. It provides an understanding of how expert systems could be used in the development of advanced business information systems, and gives some practical experience in developing and implementing information systems containing such techniques. It includes discussion on the social implications of expert systems.

Prerequisite: ISP381

Credit Points: 12 Contact Hours: 3 per week



ISP314 INFORMATION SYSTEMS MANAGEMENT

Offered: Spring

This subject is designed to develop a knowledge of the functions and practices of management in a computer installation, and to give competence in the evaluation and acquisition of a computer system. It will cover the data processing management process; criteria and techniques for selecting computer hardware, software and services; the RFP, project and operations management; site selection, and evaluation of computing contracts.

Prerequisite: Completion of one-half of the Graduate Diploma in Commercial Computing

Credit Points: 12 Contact Hours: 3 per week

SYSTEMS

Offered: Autumn

This subject examines methodologies and techniques for achieving a high level of quality in business information systems, relating these to broader principles of quality control and quality assurance. Areas covered include: types of information systems; information as a resource; past and current approaches to information systems; decision making based on information systems; analysis and design; prototype concepts; information system modelling.

Credit Points: 6 Contact Hours: 3 per week

ISP381 ADVANCED INFORMATION SYSTEMS

Offered: Autumn

This subject is designed to introduce students to the concept and application of Decision Support Systems (DSS), to study the development and architecture of DSS; and to introduce students to the role and relationship of the user and the organisation to DSS. It will cover foundations architecture and developing DSS; the DSS environment, applications and the role in an organisation; end-users and DSS; human factors; DSS and Management Information Systems (MIS); and intelligent DSS.

Prerequisite: ISB281

Credit Points: 12 Contact Hours: 3 per week

ISP383 OFFICE INFORMATION SYSTEMS Offered: Spring

This subject examines the development and implementation of information systems in the office context. It includes an assessment of the computer hardware, software and telecommunications products available to support the automated office. The subject is intended to extend students' competence in the design and management of data communications networks and to examine techniques and systems contributing to automation of the modern office. **Prerequisite:** INB285 OR INP270

Credit Points: 12 Contact Hours: 3 per week

ISP400 ADVANCED PROGRAMMING

Offered: Spring

This subject is designed to examine and study the implementation of business information systems in COBOL. It will cover a review of programming principles; fundamentals of COBOL; commercial data processing systems; data structures, serial and random file processing; and will include extensive practical projects in COBOL.

Prerequisite: ISP100

Credit Points: 12 Contact Hours: 3 per week

ISP401 COMPUTER PROJECT Offered: Spring

A major project allocated to or proposed by the student in any of the specialist areas (covered or otherwise) in the course, e.g., a development of project, software implementation, or the solution to a particular problem in computer business applications. Prerequisite: Completion of six subjects of the Graduate Diploma in Commercial Computing Credit Points: 12 Contact Hours: 3 per week

ISP410 COLLECTION BUILDING & USE I Offered: Autumn

On completion of this subject, students will be able to demonstrate an understanding of the characteristics of various print and non-print resources as channels for the communication of ideas; an ability to use the major tools of selection for both print and non-print resources; an understanding of the processes of acquisition of resources; an ability to operate a wide range of media equipment; an understanding of the economic basis of decision-making in the selection, acquisition, storage and exploitation of resources. Credit Points: 8 Contact Hours: 2 per week

ISP411 INFORMATION STORAGE & RETRIEVAL I

Offered: Autumn

This subject is designed to teach information storage and retrieval theory and its application to libraries and information agencies. Students will demonstrate an understanding of the principles of bibliographical organisation of resource materials and their part in fulfilling the mission of library and information agencies. Credit Points: 8 Contact Hours: 2 per week

ISP412 INFORMATION USERS & SERVICES I

Offered: Autumn

On successful completion of this subject students will be able to: answer user queries using standard reference print sources; conduct a reference interview; formulate a search strategy; and evaluate reference sources and services. Students will examine user needs as the basis for library and information services; the findings of user studies conducted in Australia and abroad.

Credit Points: 8 Contact Hours: 2 per week

ISP413 INFORMATION AGENCY MANAGEMENT & SERVICES I

Offered: Autumn

On successful completion of this subject, students will be able to: define the managerial functions of planning, organising, staffing directing and controlling; apply the theory of management to a wide variety of information agencies; and analyse specific work situations in order to apply managerial concepts and techniques successfully.

Credit Points: 8 Contact Hours: 2 per week

ISP414 LIBRARY SERVICES TO YOUNG PEOPLE

Offered: Spring

This subject is designed to introduce students to the most important aspects of library service to young people. Students will be able to offer a variety of services and programmes appropriate to different community groups; evaluate works written for children and young people in order to select appropriate resources for the library's clientele.

Credit Points: 12 Contact Hours: 3 per week



ISP418 INFORMATION & REFERRAL SERVICES

Offered: Autumn

This subject will provide an introduction to community information services offered in libraries and by other agencies; a means of identifying the information needs of individuals in their private lives; locating, storing, retrieving and repackaging this information.

Credit Points: 12 Contact Hours: 3 per week

ISP419 GOVERNMENT DOCUMENTS

Offered: Autumn

This subject is designed to examine the production, acquisition and organisation of government documents, as well as issues related to their use. Students will demonstrate a knowledge of the range of government documents available; of the extent of bibliographic control currently being applied to these materials; of appropriate organisational patterns for these resources.

Credit Points: 12 Contact Hours: 3 per week

ISP420 COLLECTION BUILDING & USE II Offered: Spring

On completion of this subject, students will be able to demonstrate an understanding of the characteristics of various print and non-print resources as channels for the communication of ideas; an ability to use the major tools of selection for both print and non-print resources; an understanding of the processes of acquisition of resources; an ability to operate a wide range of media equipment; an understanding of the economic basis of decision-making in the selection, acquisition, storage and exploitation of resources.

Prerequisite/Co-requisite: ISP410

Credit Points: 8 Contact Hours: 2 per week

ISP421 INFORMATION STORAGE & RETRIEVAL II

Offered: Spring

This subject is designed to teach information storage and retrieval theory and its application to libraries and information agencies.

Prerequisite: ISP411

Credit Points: 8 Contact Hours: 2 per week

ISP422 INFORMATION USERS & SERVICES II

Offered: Spring

This subject is designed to teach students to act as the interface between users and the data or information they may require, in whatever form, using a variety of available resources, systems, and technologies. This subject comprises design, construction and use of databases: comparison of commercially produced dbms: structure of the database industry; types of databases.

Prerequisite: ISP412

Credit Points: 8 Contact Hours: 2 per week

ISP423 INFORMATION AGENCY MANAGEMENT & SERVICES II

Offered: Spring

An introduction to automated library management systems, both mainframe/minicomputer and microcomputer based, including circulation, cataloguing, acquisitions and security systems, as well as integrated library systems and the nature and use of local area networks.

Prerequisite: ISP413

Credit Points: 8 Contact Hours: 2 per week

ISP427 SPECIAL TOPIC - LIBRARY SCIENCE

Offered: Spring

This subject is designed to allow for significant development of or emphasis in library science not dealt with in other course subjects. Selected topics and study areas will be offered as required and when the necessary expertise is available.

Prerequisite: See School announcements Credit Points: 12 Contact Hours: 3 per week

ISP428 FIELD EXPERIENCE

Offered: Autumn, Spring

This subject comprises a total of six weeks' full-time individualised work experience in a library or other information agency approved by the Head of School. Field experience may normally be divided into no more than two separate periods of three weeks apiece and must be arranged through the School of Information Systems.

Credit Points: 8

ISP998 SPECIAL TOPIC - COMMERCIAL COMPUTING

Offered: Autumn

This subject is designed to allow for significant development of or emphasis in commercial computing not dealt with in other course subjects. Selected topics and study areas will be offered as required and when the necessary expertise is available.

Prerequisite: See School announcements

Credit Points: 12 Contact Hours: 3 per week

ISP999 SPECIAL TOPIC - COMMERCIAL COMPUTING

Offered: Spring

This subject is designed to allow for significant development of or emphasis in commercial computing not dealt with in other course subjects. Selected topics and study areas will be offered as required and when the necessary expertise is available.

Prerequisite: See School announcements

Credit Points: 12 Contact Hours: 3 per week

📓 LPB441 URBAN PLANNING II

Offered: Spring

The meaning of urban govemance. The statutory relationships amongst Australian federal, state and local authorities and the effective relationships amongst them with respect to physical, social, decision-making and financial resources. The structure of local authority, state and federal government departments. The relationships between politicians and administrators. Rural land use patterns. The characteristics and dynamic of rural land uses - forestry, pastoral and arable agriculture, extractive industries, water collection, recreation and tourism, conservation systems. Impacts of rural resource developments. Rural land evaluation. Rural planning and characteristics of rural settlements. The rural urban fringe. Rural issues, problems and conflicts.

Credit Points: 4 Contact Hours: 2 per week

💹 LPB444 URBAN PLANNING III

Offered: Autumn

Transport planning: Movement and its alternative modes - foot, cycle, car, bus, train, plane, pipeline, inland waterway and marine modes. The origins and destination approach to traffic management, interchange studies. Inter-urban traffic and regional transport planning. The relationship between land use and traffic generation. Social Planning: The genesis of social welfare policies in Australia - employment, health, housing, income and education. The aims and



conduct of social surveys. Community development and organisation schemes in Australia and overseas. Public participation and community action; planning aid and advocacy planning.

Credit Points: 5 Contact Hours: 2 per week

LPP201 CULTURAL VALUES

Offered: Spring

Concepts of garden, landscape and environment. Formative influences on late 20th century thinking. Landscape as art or artefact, the fine arts tradition, and iconography. The continuing influence of the picturesque and gardenesque. The scientific, rationalist approach and evolving environmental romanticism. Functionalism, symbolism and meaning. The demystification (quantification) of aesthetic and personal response and the influence of the social sciences. Pursuing a public art form.

Credit Points: 6 Contact Hours: 1 per week

LPP202 RESIDENTIAL LANDSCAPE DESIGN

Offered: Autumn

Landscape design problems dealing with single and multiple dwellings. Introduction of the range of housing and subdivision types. How private and common land are controlled and managed. Consequences for design. Controls, by-laws, standards, and regulations for residential development using examples in various States. Relevant international examples including Radburn planning, experimentation with residential forms in the last 50 years, and the Commonwealth's "Affordable Housing" program. Expectations of residents and the development of attitudes to suburban and urban gardens in Australia over the last century. Fashion, style and environmental constants. Microclimatic control, viewsheds and privacy, noise amelioration. Formulating and resolving briefs.

Credit Points: 9 Contact Honrs: 3 per week

LPP203 URBAN LANDSCAPE DESIGN

Offered: Autumn

Theory: client and user analysis, data gathering and information requirements, programming of work for site planning and detailed design services, programming of implementation; user/function analysis and site capacity considerations and preparation of a project brief. Open space theory and the principles of spatial design. Studio: a medium scale intensive/multiple use project which demands re-design and rehabilitation will be undertaken to apply concurrent theory lectures and seminars. Students will be expected to make time available outside studio hours to visit project site(s) and carry out such site surveys and "client" interviews as are necessary to establish project briefs and carry out the design project, Expectations of an advanced level of professional presentation will attach to the project output.

Credit Points: 9 Contact Hours: 3 per week

LPP204 LANDSCAPE PLANNING

Offered: Spring

Studies will include medium to large scale projects involving a range of biophysical, cultural, and visual issues with a relatively high degree of complexity. The focus will be on assessment and evaluation of related landscape attributes and issues with emphasis on deriving landscape management options in the form of policies, guidelines, and implementation strategies. The studio will incorporate a lecture/seminar programme which will promote an understanding of the theoretical framework of landscape planning. Credit Points: 10 Contact Hours: 4 per week

LPP205 LANDSCAPE DESIGN

Offered: Spring

Landscape design problems of increased scope, complexity and constraint. There will be at least one one-day esquisse project in addition to the primary theme project extending for the duration of the subject. Emphasis will be on the consistent resolution of design from broad concept through to the most detailed level. Matters of appropriate style and morphology will be dealt with in depth with the selected theme applied consistently through scale and organisation of layout, selection of materials, forms and elements, and integration with surrounding context. Projects will emphasise design of planting, constructed elements.

Credit Points: 11 Contact Hours: 3 per week

LPP206 FORUM/WORKSHOP A

LPP207 FORUM/WORKSHOP B

Offered: Autumn, Spring

Content will depend on the needs of students as perceived by staff during each semester. Forum discussions will be structured around topical issues as debates, panel discussions, or seminars which may involve visiting specialist lecturers and/or participants. Skills extension sessions will be seminars of studio tutorials in areas such as graphic and other communication techniques, new materials or processes, innovative approaches to design, or specialised survey/analysis techniques.

Credit Points: 2 Contact Hours: 1 per week

LPP208 LANDSCAPE PRACTICE

Offered: Spring

Practical experience for a period of at least three weeks in landscape architectural office or offices as approved by the Course Co-ordinator. This experience may be prerequisite to or co-requisite with the second part of the subject. Experience will be logged as directed. Principles of contract law, forms of contract, standard conditions of contract and conditions of engagement, contract administration, professional presentation.

Credit Points: 6 Contact Hours: 2 per week

LPP209 ECOSYSTEMS

Offered: Autumn

The study of small to medium scale ecosystems, including plant-soil relationships, structure and function of natural communities, evolutionary and ecological processes, analysis and interpretation of natural indicators. Study of local ecosystems, their composition (identification of species), dynamics, and responses to pressures.

Credit Points: 3 Contact Hours: 1 per week

LPP210 LANDSCAPE MANAGEMENT A Offered: Spring

Assessment and evaluation including environmental impact analysis and an outline of current Commonwealth and State environmental assessment procedures and applications. Visual and scenic quality assessment techniques. An introduction to computerised three-dimensional modelling. Ecosystem protection, corridor and catchment management. An introduction to broadscale computerised monitoring and management programs including a range of case studies. Rural land use issues and systems. Resource management issues and systems.

Credit Points: 9 Contact Hours: 4 per week



LPP211 LANDSCAPE MANAGEMENT B

Offered: Autumn

The relationship between management and construction. Management created/dependant landscapes and construction created landscapes. Specifying and programming both construction and management as part of design implementation. Monitoring. The role of horticultural, agricultural and environmental sciences; specialisations and appropriate case studies. Horticulture, urban horticulture, arboriculture, plantscapes. Bushland management (including the Bradley method), regeneration, and monitoring. Catchment and watercourse management, embankment stabilisation. Coastal management and monitoring, particularly in use areas.

Credit Points: 10 Contact Hours: 4 per week

LPP212 ADVANCED GRAPHICS

Offered: Autumn

Applications of larger format design presentation; case studies and examples; advanced colour techniques; relating verbal and visual material; relating design concepts to visual themes.

Credit Points: 4 Contact Hours: 2 per week

LPP213 ADVANCED LANDSCAPE CONSTRUCTION

Offered: Autumn

Introduction to theory and techniques of a range of types of landscape construction including platforms, land stability and stabilisation, clearing and demolition, earth dams, lakes and flood levees, broadscale stormwater drainage and control, sports facilities and swimming pools, irrigation systems. Introduction to the types of documentation used for the implementation of landscape works including working drawings, specifications, bills and schedules of quantities and methods of production. Students will be required to produce a set of working drawings and specification of a competent standard for inclusion in their personal portfolios.

Credit Points: 9 Contact Hours: 3 per week

LPP214 LANDSCAPE ENGINEERING

Offered: Spring

Common philosophies of civil engineering designs; site influences on structural form; residential sub-divisions - structural and engineering design, services, design standards, controls; major road systems - hierarchy, route selection, design parameters, noise constraints, associated services/facilities; waste disposal - land fill; large dams, canals, mainas, coastal development - engineering constraints, design parameters, standards, erosion control methods; airfields, power reticulation controlling authorities and legislation.

Credit Points: 4 Contact Hours: 2 per week

LPP215 DEPARTMENTAL FIELD TRIP Offered: Autumn, Spring

The Field Trip will be a 7-10 day organised trip either interstate or in Queensland away from Brisbane. Environments may be natural, rural, or urban and the work and issues for discussion may relate to any or all of these. Current projects and complexity, areas of work, or contextual issues not able to be experienced locally will form the major thrust of the Field Trip. **Credit Points:** 2

LPP401 RURAL LAND USE & PLANNING Offered: Autumn

Rural land use patterns. The characteristics and dynamics of rural land uses - forestry, pastoral and arable agriculture, extractive industries, water collection, recreation and tourism, conservation systems. Impacts of rural resource developments. Rural land evaluation. Rural planning and characterisations of rural settlements. The rural urban fringe. Rural issues, problems and conflicts. Case studies of rural land usc, abuse and conservation in Australia and overseas. Associated project and field work.

Credit Points: 3 Contact Hours: 1 per week

LPP402 SOCIAL PLANNING

Offered: Spring

The genesis of social welfare policies in Australia employment, health, housing, income and education. The aims and conduct of social surveys. Community development and organisation schemes in Australia and overseas. Public participation and community action; planning aid and advocacy planning.

Credit Points: 4 Contact Hours: 1 per week

LPP403 INTRODUCTION TO PLANNING PROCESSES

Offered: Autumn

Creativity, scientific method and planning method. Prediction, uncertainty, partial rationality and planning horizons. Deductive, inductive and hypothesis-based approaches to planning method. The shape of the planning process. Objective formulation, data selection and analysis, resource and potential surface analysis. Policy formulation and plan generation. Evaluation techniques. Cyclic monitoring and reformulation of objectives.

Credit Points: 6 Contact Hours: 2 per week

■ LPP404 INTRODUCTION TO THEORIES OF PLANNING

Offered: Autumn

Ideas and theories in planning; theory as a basis for practice. The political and philosophical determinants of land use planning. Values in planning, models of human nature and planning's relationship to important value traditions: liberalism, utilitarianism, empiricism, idealism, socialism, conservatism. The concepts of the public interest, social justice and public intervention.

Credit Points: 6 Contact Hours: 2 per week

LPP405 PROCEDURAL PLANNING THEORY

Offered: Spring

Theory, explanation and prescription and the development of planning and decision theory; comprehensive planning and incrementalism, flexibility and commitment, the management of uncertainty, levels of decision making - the concept of mixed scanning, strategic and local planning, 'procedural' planning theory and recent critiques.

Credit Points: 4 Contact Hours: 1 per week

LPP406 PROFESSIONAL PROCEDURES & ETHICS

Offered: Spring

The nature and role of a profession and professionalisation. Codes of practice and ethics. The role of the expert witness, Situations of professional conflict. The role of the professional planner in public and private practice. Office practice and procedures setting up an office, filing, costing, control systems, preparation of briefs, estimating.

Credit Points: 4 Contact Hours: 1 per week

LPP407 URBAN POLICY PROCESSES Offered: Autumn

Models of public decision-making: rational, incremental, bureaucratic, etc. The roles of political,



administrative and private actors in public policymaking. Organisational and inter-organisational theory, including theory of bureaucracy, organisational structure and change, inter-organisational decision-making. Ways of improving urban policy making at the organisational and inter-organisational level; corporate planning, PPBS, management by objectives, strategic choice, ctc.

Credit Points: 3 Contact Hours: 2 per week

LPP408 SOCIAL & POLITICAL STRUCTURES

Offered: Autumn

The focus and exercise of power in society; analysis of modern industrial societies, with particular reference to Australia; structure of society, family, political groups, ethnic groups, alternative societies, etc.; relevance to and implications for statutory planning. Credit Points: 3 Contact Hours: 1 per week

LPP411 PLANNING PRACTICE & LAW (URBAN)

Offered: Autumn

This subject takes the form of a problem solving group project set in an inner metropolitan or small town location, often undertaken in conjunction with local communities and councils. In the course of the project, which is accompanied by a series of lectures, the student group formulates policies and strategies relating to a specific urban area. Topics discussed include the statutory basis for urban planning and development in Queensland, including land use allocation, zoning, development control, statutory and non-statutory plans, consultation and participation, and the sources and use of statistical and other data relevant to urban planning.

Credit Points: 14 Contact Hours: 4 per week

LPP412 PLANNING PRACTICE & LAW (REGIONAL & STRATEGIC)

Offered: Spring

The regional concept and its relevance to planning; aims of regional and strategic planning, e.g. integration of urban and rural development, reduction of regional disparities, resource development; statutory basis of strategic planning; the case of Queensland. Strategy and policy formulation in a group project relating to a specific region.

Credit Points: 14 Contact Hours: 4 per week

LPP413 ADVANCED URBAN STRUCTURE Offered: Autumn

Critique of models of urban land use; justice, equality and welfare in the urban context; marginalisation and polarisation of groups within society; issues related to the problems and requirements of groups such as women, children, the aged, disabled, ethnic minorities, and access to housing, transport, etc.; relevance to and implications for planners.

Credit Points: 3 Contact Hours: 1 per week

LPP414 RESOURCE MANAGEMENT

Offered: Autumn

Aims and processes of resource management. Alternative approaches and techniques, resource inventories and evaluations. Environmental impact analysis and statements, statutory requirements. Multi-purpose schemes and the planning and management of regional landscapes in Australia and overseas. Policy studies of land and other resource management schemes.

Credit Points: 6 Contact Hours: 2 per week

LPP415 RESEARCH METHODS & INDIVIDUAL PROJECT

Offered: Spring

The place of objectives in research method; delimitation of areas of concern; structuring the research program; identification of primary and secondary sources; purposes and limitations of analysis; inference, uncertainty and exclusion of false conclusions; selection and adaptation of techniques. Preparation of an individual research study 10-12,000 words in length (or equivalent).

Credit Points: 10 Contact Hours: 2 per week

LPP416 URBAN POLICY IMPLEMENTATION

Offered: Spring

Overview of the roles of the three levels of government in Australia as they impact on urban policy making and implementation. Statutory Authoritics. The roles of the private sector, through pressure groups, development proposals and the like. Implementation and evaluation in the urban planning process. The general problems of change, implementation and evaluation: motivation, conflict, coordination, flexibility, information, resources, etc. Development of skills for improving the implementation of urban policies, including conflict resolution and negotiation skills. As far as possible material will be linked to case studies.

Credit Points: 4 Contact Hours: 1 per week

LPP418 COMPUTER APPLICATIONS IN PLANNING

Offered: Spring

The course will deal with four main areas of computer usage in urban and regional planning. Information storage and retrieval; sources of information and data bases (census, local surveys, networked data bases, etc.). The use of information in decision-making, Manipulation of information by use of statistical packages (specifically SPSS & 1022). Computer-aided Design & Drafting (CADD): The use of PALETTE and CDS on the QUT's facilities, including 'hands on' experience with drafting, digitising, etc. The specific use of Land Information Systems. Micro-computers: The use of APPLE and IBM PC. Applications of software, including graphics, data bases, mapping, business packages (possibly including spread-sheets and CPM as business aids). Planning techniques: Will include the use of programmes developed in the Department and will be linked to material being taught in other current subjects in the course.

Credit Points: 8 Contact Hours: 2 per week

LPP420 DEPARTMENTAL FIELD TRIP & WORKSHOP

Offered: Autumn

One field course of approximately 7 - 10 days duration to provide a comparative dimension to students' studies and to develop skills in observation, data collection, recording and interpretation.

Credit Points: 4 Contact Hours: 7 - 10 days

LPP501 THEORY OF SITE PLANNING Offered: Autumn

Exploration of open space theory at regional and local scales; definition of spatial characteristics by edges, nodes, landmarks, districts, and paths. Sense of place; structure and form; legibility; imageability; ete; human responses and expectations and their effects on site planning decisions.

Credit Points: 2 Contact Hours: 1 per week



LPP502 SITE PLANNING TECHNIQUES

Offered: Spring

Introduction to the processes of site planning and detailed site design that lead to defendable and accountable solutions; role and objectives of survey and analysis phases; types of information required and the methods of processing the resultant data; data analysis, its scope and documentation; the use of data analysis to generate and evaluate possible problem solutions in conceptual form as a basis for strategic and master planning and the value of these processes as a long term mechanism for adaptation of master planning to meet changing needs.

Credit Points: 2 Contact Hours: 1 per week

LPP503 HISTORY OF LANDSCAPE DESIGN

Offered: Spring

The form and content, influencing factors, and implication of the creation and development of historically, regionally, and religiously significant consciously designed landscape throughout the world; the evolutionary processes in development of cultural landscapes.

Credit Points: 2 Contact Hours: 1 per week

LPP504 PLANTING DESIGN

Offered: Spring

Design characteristics and criteria. The use of plants as structural and design elements within landscape. Principles of planting design. Seale. Design for change, growth, replacement, and maintenance. Planting design in typical schemes such as streets, highways, parks, urban forecourts and interior plantscapes, gardens, and broadscale regeneration and stabilisation.

Credit Points: 3 Contact Hours: 1 per week

LPP505 CONSERVATION THEORY

Offered: Spring

Introduction to the concepts of conservation and preservation. Outline of the development and current status of the conservation movement. The structure of conservation legislation and responsibility in Australia. ICOMOS and the "Burra" Charter. The particular requirements of places, landscapes, and precinets in mixed or public ownership. Application of conservation concepts and their use in the National Listings process. Local and Regional Case Studies. Credit Points: 3 Contact Hours: 1 per week

LPP506 - USER & CHARACTER DESIGN STUDIES

Offered: Autumn

The first project will be concerned with user behaviour and requirements using two or three city centre pedestrian spaces. The second project uses the same locations to analyse the spaces in the light of both their own inherent characters and the user needs and responses defined earlier. As an introduction to the concept of abstraction, a final project may be held consisting of individuals or small groups of students making sculptures or models expressing the spirit of the places studied earlier in the semester.

Credit Points: 10 Contact Hours: 3 per week

LPP507 SITE PLANNING

Offered: Spring

Application of site planning principles and theory at all scales and types of projects; site utilisation and selection; application of site survey and analysis techniques; natural and man-made influences in physical design; environmental and social implications of design decisions; siting and integrating activities, structures, and services; land form manipulation. Emphasis will be given to alternative concept formulation and evaluation as a critical decision-making phase of the design process.

Credit Points: 10 Contact Hours: 3 per week

LPP508 INTRODUCTION TO PRACTICE Offered: Autumn

The concept of professionalism and contemporary social expectations of the environmental design professions. Current issues and controversies in environmental design and planning in Australia. Roles, ranges of employment and activities within the profession. Organisation and activities of the professional Institute. The future directions, potentials, and opportunities. Introduction to the range of professions associated with Landscape Architecture. Introduction to the importance and techniques of CVs and portfolios. **Credit Points: 4** Contact Honrs: 2 per week

LPP509 QUANTITIES & COSTS

Offered: Spring

Measurement and costing of time, resources, and materials for professional services, production of documents, and implementation of projects. The techniques and tools available for both preliminary and detailed measurement and costing and their control. Time and percentage measurement and costing related to the professional services. Costs of documents, including relative costs of different methods of production. Units of management and costing of broad development types and for more detailed landscape architectural and urban design projects. The techniques of cost control.

Credit Points: 2 Contact Hours: 1 per week

LPP510 INTRODUCTION TO LAW

Offered: Spring

Laws, regulations and their interpretation. A review of the Australian and Queensland acts, local authority by-laws and regulations of statutory authorities as they affect the built environment. Legal aspects of land and transfer. Planning and land use regulations. Introduction to professional liability, design registration, and copyrights.

Credit Points: 2 Contact Hours: 1 per week

LPP511 - ENVIROMENTAL PSYCHOLOGY

Offered: Autumn

The social and cultural development of Australian urban environments, with particular reference to the local built environment. The study of human functioning in urban environments. Theory: privacy, personal space, territoriality, environmental meaning and cognition, cognitive ways and wayfinding, intercultural and intracultural differences. Application via examination and analysis of an urban environment or an artefact with respect to its sociocultural function.

Credit Points: 4 Contact Hours: 2 per week

LPP512 PLANT RECOGNITION & REQUIREMENTS

Offered: Autumn

Field recognition by visual characteristics of size, form, texture and colour and by use of simple kcys. Requirements of plants for growth in differing environments and the selection of species most suited to particular sets of environmental conditions. Basic botanical terms, plant nomenelature, collection and preservation of plant material, plant physiology and concepts of plant associations will be introduced. **Credit Points: 4 Contact Hours: 2** per week



LPP513 APPLIED NATURAL SCIENCE

Offered: Spring

Applied studies in geology and geomorphology, climate and micro-climate, soils and hydrology, and broad soil and plant community associations. The influences of these systems collectively and separately on environmental design decisions.

Credit Points: 4 Contact Hours: 2 per week

LPP514 APPLIED ENVIRONMENTAL SCIENCE

Offered: Spring

The basic principles of ecosystems are introduced and the concepts of plant community - environmental associations are strengthened. Methods and techniques of vegetation mapping and classification are introduced including use of air photo and remote sensing skills introduced previously. Environmental needs of plants in diverse built environments and nursery production of these plants are explored. Credit Points: 6 Contact Hours: 3 per week

LPP515 LAND USE GENERATION

Offered: Spring

Changing patterns of urban land use, medieval to industrial revolution; segregation of land uses in planned settlements of the twentieth century; planning for urban diversity; the logic of design - from values through activities to land uses; the formation of value systems; analysis and projection of activity systems; electronic communications, urban decentralisation, and emerging settlement patterns in the western world.

Credit Points: 4 Contact Hours: 2 per week

LPP516 VISUAL COMMUNICATION -GRAPHICS

Offered: Autumn

Studio sessions focus on lettering, layout, and visual themes in display communication. Scale, emphasis, readability, and organisation of various types of information (photos, diagrams, text, sketches, plans, etc.) Sessions demonstrate and develop the use of diagrams as major tools to explore and to communicate all types of information from concepts through to physical relationships. Exercises introduce and develop the range of sketch types and their appropriateness to different types of work such as exploration of form, analysis, and communication of concepts.

Credit Points: 6 Contact Hours: 3 per week

LPP517 ORAL COMMUNICATION SKILLS

Offered: Autumn

Formal oral communication techniques including meetings, conferences, interviews and speeches (informative and persuasive).

Credit Points: 2 Contact Hours: 1 per week

LPP518 REPORT PREPARATION

Offered: Autumn

Formal writing techniques, including reports, instructions, proposals, specifications, correspondence and essays. Report writing. Structure and content of reports. Summaries and subdivision of material. Precis. Use of tables, charts, and illustrations in written presentation. Clarity and the selection and management of relevant data.

Credit Points: 2 Contact Hours: 1 per week

LPP519 COMPUTER AIDED DATA ANALYSIS

Offered: Autumn

Students are introduced to the usefulness of the computer as a tool in landscape architecture and planning, and to the variety of areas where information systems and statistical analysis ean assist decision-making. The subject will be orientated towards actual use of computers to ensure students experience all phases of the process (input, manipulation, output, analysis, and presentation).

Credit Points: 4 Contact Hours: 2 per week

LPP520 LANDSCAPE GRAPHICS Offered: Spring

Combined application of freehand, drafting and colour techniques. The selection of colour, theme and emphasis in graphic packages. Realism, abstraction and symbolism in landscape communication. Monochromatic graphics for simple reproduction. Integration of various graphic techniques and media. Efficient processes for production and reproduction. **Credit Points: 4 Contact Hours: 2** per week

LPP521 MAP & AIR PHOTO INTERPRETATION

Offered: Autumn

Types, sources, uses, and availability of maps and air photos; map reading, understanding of contours, land form, and use of sections; methods and techniques of map production; introduction to photogrammetry and use of stereoscopes; introduction to remote sensing. **Credit Points: 2 Contact Hours: 1** per week

LPP522 MEASUREMENT OF SITES

Offered: Autumn

Introduction to basic equipment for site measurement - levels, staffs, chains and tapes, prismatic compass, optical square, clinometer, range poles - and their uses in horizontal and vertical measurement. Introduction to recording of field data and the preparation of measured site drawings from recorded data.

Credit Points: 2 Contact Hours: 1 per week

LPP523 LANDSCAPE CONSTRUCTION Offered: Autumn

Introduction to structures. Definition of terms; basic actions/reactions of beams, columns, slabs, structural units and types of structures; loadings and types (including wind loading). Development of understanding of the properties of common construction materials and their application in landscape construction; establishment of sound techniques of technical drawing in the preparation of construction documents. Topics covered include the common materials; an understanding of foundation soils; basic services of site stormwater drainage, water and electrical services; applied systems including paving, steps and ramps; and construction for planting and small water features.

Credit Points: 6 Contact Hours: 3 per week

LPP524 LAND GRADING

Offered: Spring

Manual techniques of land surface manipulation including the construction of platforms for building, carparks, sports ovals, and other; features and the associated provision of surface drainage.

Credit Points: 6 Contact Hours: 3 per week

LPP551 LAND USE GENERATION

Offered: Autumn

Changing patterns of urban land use, medieval to industrial revolution; segregation of land uses in planned settlements of the twentieth century; planning for urban diversity; the logic of design - from values through activities to land uses; the formation of value system; analysis and projection of activity systems; electronic communications, urban



decentralisation, and emerging settlement patterns in the western world.

Credit Points: 4 Contact Hours: 2 per week

LPP552 INTRODUCTION TO GRAPHICS Offered: Autumn

Frechand sketching of objects from observation, rendering textured surfaces, design developmental graphics, understanding two-dimensional layout and competence in presentation of two-dimensional design in reports and drawings.

Credit Points: 4 Contact Hours: 2 per week

LPP553 SITE PLANNING DATA & TECHNIQUES

Offered: Autumn

Natural influences in physical planning - geology, climate, topography, hydrology, soils and vegetation etc. Ecological considerations in design and development processes. Impact of natural hazards and other physical constraints on design, including air, water, and noise pollution. Impacts of development on the natural environment. Landscape evaluation techniques. Credit Points: 2 Contact Hours: 1 per week

LPP554 SITE PLANNING PRACTICE

Offered: Autumn

Layout of lots, buildings, roads and services; the retention of existing desirable features of the site; use of trees and other plant material; modification of land surface e.g. cut and fill; subdivision design; planning application and approval process.

Credit Points: 12 Contact Hours: 3 per week

LPP555 THEORY OF SITE PLANNING

Offered: Autumn

Exploration of open space theory at regional and local scales; definition of spatial characteristics by edges, nodes, landmarks, districts, and paths. Sense of place; structure and form; legibility; imageability etc.; human responses and expectations and their effects on site planning decisions.

Credit Points: 2 Contact Hours: 1 per week

LPP556 PROFESSIONAL COMMUNICATION

Oral and written presentation. Clarity and the selection and management of relevant data. Report writing. Structure and content of reports, Summaries and subdivision of material. Precis.

Credit Points: 4 Contact Hours: 2 per week

LPP557 TRANSPORT PLANNING

Offered: Spring

Movement and its alternative modes - foot, cycle, car, bus, train, plane, pipeline, inland waterway and marine modes. The origin and destination approach to traffic management interchange studies. Inter-urban traffic and regional transport planning. This relationship between land use and traffic generation.

Credit Points: 4 Contact Hours: 2 per week

LPP558 POPULATION & URBAN STUDIES Offered: Spring

Basic urban definitions, spread and characteristics of urbanisation, the structure of cities and the economic and social processes at work within cities, particular aspects such as housing and gentrification, basic concepts of population and demography, recent and historical analyses of the Australian population, familiarisation with the role of ABS and with statistical and data analysis of population, world demographic trends.

Credit Points: 6 Contact Hours: 3 per week

LPP559 APPLIED NATURAL SCIENCE Offered Stating

Offered: Spring

Applied studies in geology and gcomorphology, climate and micro-climate, soils and hydrology, the broad soil and plant community associations. The influence of these systems collectively and separately on environmental design decisions.

Credit Points: 4 Contact Hours: 2 per week

Offered: Spring

The links between society, ideas and urban form. Urban evolution from ancient to modern times in Africa, Asia, Europe, America and Australasia. The Industrial Revolution and its effect on urban form and on planning ideas. Australian urban history and the development of environmental management and town planning in Australia.

Credit Points: 2 Contact Hours: 1 per week LPP561 INTRODUCTION TO URBAN DESIGN

Offered: Spring

Design method, visual thinking; principles of perception and spatial arrangement; the vocabulary of design and urban imagery; design elements; the evolution of designer theory; techniques for analysing the quality of existing built environments; analysis of examples. Urban design project.

Credit Points: 10 Contact Hours: 2 per week LPP562 ECONOMICS OF TOWN PLANNING

Offered: Autumn

Introduction to economics - the factors of production and their organisation. Demand and supply. The free market and its imperfections. The market as an allocator of preferences - concepts of private and public interest. Market failure. Social objectives and the role of government. Economic growth and stability - the enabling of development. The problem of negative externalities - the economic justification of the public control of development. Economic methodology, such as regional accounting, cost benefit analysis. Economics of land use - land as an economic concept, public and private costs. The features and operation of the real property market. Theories of land value. Land valuation theories and techniques. Land tenure - the rights of ownership - resumption by the Crown problems of compensation and recoupment of betterment. Land use controls.

Credit Points: 4 Contact Hours: 2 per week

COMPUTERS

An overview of computers: their structure, development and uses in the modern world. Problems and advantages of computer use. Introduction to the 'hands on' experience in using QUT's computer facilities: the DEC-10, CADD/CAMM, and microcomputers. Gaining access, file structures, information storage and retrieval, editing, and related utility functions. Introduction to flow-charting and programming logic. Simple programming exercises (in BASIC, FORTRAN and/or PASCAL). CADD in design. Word processing on micro-computers. As far as possible class sessions will include both teaching and 'hands on' tutorial experience.

Credit Points: 4 Contact Hours: 2 per week

LPP564 INTRODUCTION TO MAPS & AIR PHOTOS

Offered: Autumn

Types of maps, their uses and limitations. Orientation, scale, cartographic symbols, representation of relief



etc., grid coordinates. Vertical and oblique air photos; black and white, colour, false colour. Mosaics and stereopairs. Introduction to stereoscopy and simple mapping from air photos. Introduction to various types of remote sensing imagery available to planners. Credit Points: 2 Contact Hours: 1 per week

LPP565 URBAN LAND DEVELOPMENT

Offered: Spring

Structural and engineering design requirements in urban development - local physical services, roads and drainage, sewers, water, gas, electricity and Telecom services. Design and control systems, design standards, the effects of standardised requirements and alternative approaches. The roles of statutory authorities - gas, electricity, water, telephone, public transport, railways, waterways, road construction ities. Development teams - the roles of asair sociated disciplines - civil, municipal and transport engineers, earth and environmental scientist, and others. The role of the private developer.

Credit Points: 2 Contact Hours: 1 per week

LPP566 HOUSING & COMMUNITY SERVICES

Offered: Spring

Population, dwellings and households, Techniques of analysis and projection of housing stock. Housing conditions and preference surveys: housing issues and policies. The economics of the building and land development industries. The physical place of educational institutions in communities - schools, colleges, universities. Share use of facilities. Location and space standards. Social and welfare services and their role in the community. Planning and management aspects of welfare.

Credit Points: 4 Contact Hours: 2 per week

LWB101 INTRODUCTION TO LAW

Offered: Full year

The purpose of the course is to introduce students to the institutions of the law - the courts, Parliament, the judiciary, the legal profession - and their working, and the doctrines and methodology of the Law, including the doctrine of precedent and the principles of statutory interpretation.

Credit Points: 12 per semester

Contact Hours: 3 per week

LWB102 LAW OF CONTRACT

Offered: Full year

The substantive principles of contract law, as taught, include: definition of the Law of Contract, outline of remedies; formation of contract - agreement; contents of a contract express and implied terms; factors vitiating contracts; capacity to contract; privity of contract; discharge of contract; breach of contract; limitation of actions; quasi-contract; and basis of liability.

Credit Points: 12 per semester

Contact Hours: 3 per week

🖾 LWB103 TORTS

Offered; Full year

At its most general level this branch of the law is concerned with the question of compensation to be given by a person causing a loss to a person suffering a loss. Areas of everyday conflict which may be resolved by principles of tort liability include damage sustained as a result of a motor-vehicle collision, and injury to a person's reputation from publication of defamatory material. The rules are examined to ascertain whether they satisfy the critical test: functional adequacy in terms of contemporary values.

Credit Points: 12 per semester

Contact Hours: 3 per week

LWB104 LEGAL RESEARCH & WRITING I

Offered: Full year

An introductory subject to teach students basic legal research methodology, and how to write assignments and solve legal problems. It includes a study of the hierarchy of the courts, the history of law reporting and the doctrine of precedent; how to use a law library effectively; and gives students practice in handling the most important research materials. An introduction to the use of computerised legal research also is included. Credit Points: 4 per semester Contact Hours: 1 per week

🖾 LWB201 LAND LAW

Offered: Full year

The principles relating to the law of Real Property in Queensland - the rights, interests and obligations which can exist in relation to land, and the methods of creating, enforcing, assigning and extinguishing such rights, interests and obligations. The course encompasses: the concept of real property; the doctrines of tenure and of estates; equitable interests; the Torrens system; easements; mortgages; leasehold interests; covenants affecting land; co-ownership; future interests and perpetuities; building units title and group title; time-sharing; and Crown leasehold. Credit Points: 12 per semester

Contact Hours: 3 per week

LWB202 CRIMINAL LAW & PROCEDURE Offered: Full year

The criminal law in force in Queensland, encompassing (inter alia) criminal responsibility, parties to offences, and major indictable offences. The wider context of the operation of the criminal law is considered, introducing students to penal principles and the justifications for imposing punishment by the State, to aspects of the disposition of offenders in the sentencing part of a criminal trial, and to a consideration of imprisonment and release procedures.

Credit Points: 12 per semester Contact Hours: 3 per week

LWB203 CONSTITUTIONAL LAW

Offered: Full year

A study of the extent of power of the institutions which make, administer or apply the law - particularly important in a federation such as the Commonwealth of Australia. The federal constitution divides power between the State and Commonwealth governments, and between the legislative, executive and judicial branches of the Commonwealth government and actions which ignore those divisions can be challenged successfully in courts of law.

Credit Points: 12 per semester Contact Hours: 3 per week

🖾 LWB301 EQUITY

Offered: Full year

Equitable doctrines were developed to complement the sometimes inflexible rules of the common law. In Autumn Semester, students are introduced to basic equitable principles, including a study of equitable estates and interests. Unconscionable dealings are also studied in some detail. In Spring Semester, major areas of study include the law of trusts and equitable remedies (including some defences).

Credit Points: 12 per semester Contact Hours: 3 per week

🔲 LWB302 FAMILY LAW

Offered: Autumn PT, Spring FT

An examination of the manner in which the law treats the special social relationships which exist among



members of a family and transforms them into legal rights and duties. Subjects examined include the family as a legal phenomenon; annulment of marriages; dissolution of marriages; and consequences of separation and divorce.

Credit Points: 12 Contact Hours: 3 per week

LWB303 COMMERCIAL LAW

Offered: Full year

The legal rules which govern mercantile dealings in personal property. The course encompasses the legal framework, the various kinds of personal property recognised in the Australian legal system, and rules which especially affect commercial transactions. Matters considered in detail include: nature and sources of commercial law; personal property; negotiable instruments including bills of exchange and cheques; bailment; sale of goods; and consumer protection under the Trade Practices Act 1974.

Credit Points: 12 per semester

Contact Hours: 3 per week

LWB305 JURISPRUDENCE

Offered: Autumn FT, Spring PT

Jurisprudence (the 'philosophy of law' or 'legal theory') involves the application of insights gained from philosophy - in particular, from logic and from moral, political and social philosophy - to the study of law. The course includes the following topics:

historical background to modern theories, sociological and historical descriptions of law and legal change, and theories of limited or unlimited government power, of recognition of valid law and legal systems, of legal reasoning, and of the proper objects of law and the proper direction of legal change.

Credit Points: 12 Contact Hours 3 per week

LWB306 LOCAL GOVERNMENT LAW Offered: Autumn FT, Spring PT

The course considers the source of legal authority for the government of cities, towns and shires, with particular reference to the City of Brisbane; the laws relating to town planning and subdivision, including the principles applicable to the rezoning of land; uses of land; the control of developments by local authorities; rights to object to developments; the control exercised over subdivision of land by local authorities; rights of appeal from local authority decisions; and the structure, purpose and procedure of the Local Government Court.

Credit Points: 8 Contact Hours: 2 per week

LWB307 INSOLVENCY LAW

Offered: Autumn FT, Spring PT

The course consists of two parts. The first deals with the insolvency of individuals and involves a study of the Bankruptcy Act 1966 (Cth). The second part of the course covers winding up of companies, procedures other than winding up which may be open to an insolvent company, and the law relating to receivership of an insolvent company's assets -this includes a consideration of the relevant provisions of the Companies (Queensland) Code.

Credit Points: 8 Contact Hours: 2 per week

LWB308 INDUSTRIAL LAW

Offered: Autumn FT, Spring PT

The Industrial Law course examines the rights and duties of employers and employees under the law of employment, breach of these duties, and the remedies of both parties; a worker's entitlement to workers compensation, and the benefits available; the law governing the operation of trade unions and the rights of members; and settlement of industrial disputes in the Commonwealth and State spheres by conciliation and arbitration.

Credit Points: 8 Contact Hours: 2 per week

LWB309 SUCCESSION

Offered: Autumn FT, Spring PT

Intestate and testate succession; definitions; joint and mutual wills; formal requirements for execution of valid will; alteration, revocation and revival of wills; administration of assets - duties, powers, rights and liabilities of personal representatives; family maintenance provisions - power of court to vary a will. Credit Points: 8 Contact Hours: 2 per week

LWB311 ADMINISTRATIVE LAW

Offered: Full year

An examination of the basis on which the courts review both administrative action taken by governments and delegated legislation, and of the remedies available and restrictions on judicial review. The alternative means of review (the Ombudsman and the Administrative Appeals Tribunal) and access to government information are examined also. The special position of the Crown and the question of government liability in contract and tort are considered.

Credit Points: 12 per semester Contact Hours: 3 per week

LWB312 LAND CONTRACTS

Offered: Autumn PT, Spring FT

This course examines in detail the principles involved in the construction of Contracts for the sale of land, with special emphasis upon the current standard REIQ Contract in use in Queensland. Special consideration is given to statutory requirements as they affect such contracts, including those relating to building units and group titles conveyancing.

Credit Points: 12 Contact Hours: 3 per week

LWB401 COMPANY LAW & PARTNERSHIP

Offered: Full year

Company Law dominates the course and is mostly concerned with registered companies. The law relating to proprietary companies is dealt with fully, that relating to public companies in outline only. Topics dealt with include: nature of registered companies, including procedure to obtain registration, and classification of registered companies; prospectuses; general meetings; enforcement of directors' and controlling members' duties; shares, share capital and dividends; and winding-up.

Credit Points: 12 per semester Contact Hours: 3 per week

LWB402 EVIDENCE

Offered: Autumn FT, Spring PT

The rules and principles that relate to the presentation and proof of facts to a Court of Law. Litigation largely involves the application of substantive law to the facts that are determined according to the rules of evidence - students' knowledge of the substantive law is assumed. In addition to the technical rules that are considered during the course, students are encouraged to view the principles in the context of the adversary system and to recognise the problems of applying rigid rules within that system.

Credit Points: 12 Contact Hours: 3 per week



LWB403 TAXATION LAW

Offered: Full year

The course examines two revenue-raising statutes the Income Tax Assessment Act 1936 (Cth) and the Stamp Act 1894 (Qld). Matters dealt with in income tax include the administrative structure and scheme of the Act, residence of taxpayers, determining assessable income and deductions, taxation of partnerships, trusts and companies, capital gains tax, and tax planning. Stamp duty covers assessment of duty on common instruments such as leases, mortgages, trusts and conveyances.

Credit Points: 12 per semester Contact Hours: 3 per week

LWB404 CIVIL PROCEDURE

Offered: Full year

The procedure by which Courts resolve civil disputes. The course emphasises (but is not restricted to) the practice in the Supreme Court of Queensland, covering the rules of that Court and principles of law arising from them. Topics studied include commencement of proceedings, interlocutory applications, costs, appeals and execution of orders and judgements. The course is relevant to anyone dealing with jurisdictions based on the Judicature system.

Credit Points: 8 per semester

Contact Hours: 2 per week

LWB405 SOLICITORS' TRUST ACCOUNTS

Offered: Autumn FT, Spring PT

A practical study of accounting for trust funds covering: trust accounts requirements - commencing a trust account, the format of prime documentation and records, receipts and payments, the books of account, bank and cashbook reconciliations, investments, trust ledger accounts and trial balance; the auditor's role and audit requirements; and accounting for the Queensland Law Society Deposit.

Credit Points: 8 Contact Hours: 2 per week

LWB406 PUBLIC INTERNATIONAL LAW Offered: Autumn PT, Spring FT

Basically, the rules which govern the activities of States between themselves (e.g. rules for treatymaking). The ambit of this area of law extends to rules for the running of international organisations such as the UN, and rules of conduct between such organisations and States. The course includes such topics as: treatment of the Australian Aboriginal; Australia's maritime territory; uranium mining and export; the legality of secession of Queensland from the Commonwealth of Australia; and the Namibia dispute. Credit Points: 12 Contact Hours: 3 per week

LWB407 CONFLICT OF LAWS

Offered: Autumn PT, Spring FT

An in-depth analysis of the body of law governing the resolution of private legal problems with a significant foreign element. It includes: jurisdiction of domestic courts to determine matters having a foreign element; enforcement of foreign judgments in the domestic jurisdiction; choice of law for the resolution of the dispute - both generally and in relation to family law, contract, tort, property and succession.

Credit Points: 12 Contact Hours: 3 per week

LWB409 PROFESSIONAL CONDUCT Offered: Spring FT and PT

All LLB students, whether they intend to become barristers or solicitors, must study both parts of this subject. Barristers - Lectures cover conduct and etiquette at the Bar, and deal specifically with the character of practice at the Bar; regulation of practice at the Bar in Queensland; and the respective duties of Barristers to the Law, the Court, the public, the client and the opponent. Solicitors - Matters dealt with include professional courtesies, division of the profession in Queensland, the Statutory Committee, malpractice, professional conduct, duties of a solicitor, respective functions of barristers and solicitors, a solicitor acting for more than one party, advertising fees, trust accounts and legal professional negligence. **Credit Points:** 2

Contact Hours: 2 per week for 5 weeks (10 hours)

LWB410 TRADE PRACTICES LAW

Offered: Autumn PT, Spring FT

This elective course deals with the law established by the Trade Practices Act 1974 (Cth), as amended, and related State Laws. The course studies: background to, and need for, the legislation; constitutional basis of the Commonwealth Act; administrative arrangements and enforcement procedures; control of 'restrictive' practices; prohibition of 'unfair' practices; and jurisdictional problems and remedies. Credit Points: 12 Contact Hours: 3 per week

LWB412 RESEARCH & WRITING PROJECT

Offered: Autumn and Spring, FT and PT An arranged and supervised piece of research into some area of legal knowledge, and the writing of a paper of between 10,000 and 15,000 words on the results of the research and conclusions drawn therefrom. The paper will be the property of the Faculty of Law and may be placed in the Law Library. A student wishing to undertake the Research and Writing Project should discuss the matter as early as possible in the semester immediately before that in which he/she proposes to undertake it. The written proposal must reach the Dean at least two clear weeks before the beginning of the teaching semester in which the project will be undertaken, and the proposal will be accepted or refused -and the student notified accordingly - not later than the first day of that teaching semester.

Credit Points: 12

LWB414 DRAFTING & LEGAL TRANSACTIONS

Offered: Full Year

A study of the general principles of drafting and analysis of instruments commonly used in practice including deeds, special conditions in Torrens Title conveyancing contracts, options to purchase and renew, Land Act contracts, and business contracts and leases. The course includes an introductory study of stamp duty and its applications, and an examination of securities and trust instruments. Drafting covers mortgages, unit trusts and discretionary trusts, together with stamp duty implications.

Credit Points: 8 per semester Contact Hours: 2 per week

LWB415 LEGAL RESEARCH & WRITING II

Offered: Full year

This advanced subject revises, extends and tests students' legal research skills acquired in the introductory subject. Sources from other jurisdictions such as the UK, Canada, New Zealand and the USA are included. An important section of this subject is the researching/writing of an assignment based on a problem which involves a number of subjects studied



during the LLB course, including researching recent developments in the law in those areas. Credit Points: 4 per semester Contact Hours: 1 per week

LWB480 MEDIA LAW

Offered: Autumn PT; Spring FT

The laws which shape the news media, their industry structure and their message content. Topics include journalists and their sources of information, defamation, contempt, confidential information, access to information, the Broadcasting Tribunal, and regulation of advertising and of ownership.

Credit Points: 12 Contact Hours: 3 per week

LWB481 MINERAL LAW

Offered: Autumn PT, Spring FT

Predominantly, the law governing and affecting the mining of 'hard' minerals. The course begins with a short explanation of basic concepts, and then analyses mining legislation - with particular emphasis on Queensland legislation - and other legislation which has an impact on mining. The structure of mining ventures is also considered. Specific topics considered include: ownership of minerals; State agreements; securities; mining on private land; administration of mining legislation: Warden's Court; and environment protection legislation.

Credit Points: 12 Contact Hours: 3 per week

LWB482 COMPUTERS & THE LAW

Offered: Autumn PT, Spring FT

Computers and their impact upon the law including: use of computers in the individual legal practice; computerisation of the Titles Office, Companies Register, Parliamentary Drafting, Government Printer, Supreme Court; computer contracts; computer records as evidence; and implications of data storage for privacy, and freedom of information. The course includes instruction in the use of Computerised Legal Information Retrieval System (CLIRS).

Credit Points: 12 Contact Hours: 3 per week

LWN001 ADVANCED COMPANY LAW

Offered: Full Ycar

The first part of this course considers the Companies (Acquisition of Shares) Code which regulates acquisition of shares effecting a change in a company's control. The second part of the course considers the law of company liquidations; emphasis is given to a creditor's application for a winding-up order, and effects of a winding-up and duties/powers/rights of liquidators are also considered.

Prerequisite: LWB401 or equivalent Credit Points: 10 per semester Contact Hours: 2 per week

鏺 **LWN005 TRADE PRACTICES &** CONSUMER PROTECTION

Offered: Full year

This course studies various aspects of the current Australian Trade Practices Act 1974, not only from a purely professional viewpoint but also from a wider viewpoint of the policy issues involved. No knowledge of economics is required, although some readings will be drawn from economics. Topics dealt with include: the common law doctrine of restraint of trade; the economics of competition; markets, competition and market power; mergers; price fixing; misleading and deceptive conduct in general, and specifically; enforcement, remedies and authorisations under the Act.

Credit Points: 10 per semester Contact Hours: 2 per week

LWN007 COMMERCIAL ARBITRATION

Offered: Full Year

Commercial arbitration - Australian and international. Course content includes: nature and conduct of arbitration proceedings, court control of arbitration, awards and their enforcement, and

international commercial arbitration. Credit Points: 10 per semester

Contact Hours: 2 per week

LWN008 COMMERCIAL LEASES Offered: Full Year

A detailed examination of the standard clauses of a modern commercial lease in the light of recent case law and Queensland statutory provisions affecting those interests. Included are several sessions from specialist practitioners on drafting techniques and registration practice.

Credit Points: 10 per semester

Contact Hours: 2 per week

LWN011 LITIGATION

Offered: Full Year

Successful litigation is a product of both favourable substantive law rights and a thorough knowledge and application of the rules of procedure and evidence. The course examines current issues in the litigation process which present interest or difficulty in legal practice. The emphasis is on procedure and evidence in the Supreme Court of Queensland, although other jurisdictions are considered.

Credit Points: 10 per semester

Contact Hours: 2 per week

LWN013 COMMERCIAL REMEDIES

Offered: Full Year

The main emphasis is on study of judicial remedies in civil actions relating to commercial transactions. The course initially discusses the theory and function of such remedies, and then considers in detail remedies such as damages, equitable remedies, restitutionary claims, and some statutory remedies. A knowledge of the substantive law giving rise to the existence of a right to seek a remedy is assumed, and the focus is on the process of selecting remedies to best enforce the particular right. Credit Points: 10 per semester

Contact Hours: 2 per week

🔟 LWS001 MEDICINE & THE LAW

This subject seeks to teach students to appreciate the impact of some important fields of law upon the medical profession and upon hospital staff, patients and visitors. Introduction to law and the legal system. The Federal and State systems. General principles of the law of tort. Principles of negligence. Trespass. Liability of hospitals. Industrial law and industrial relations. Workers' compensation. Legal aspects of medical practice. Medico-legal investigations, Medical ethics. A consideration of emerging legal issues surrounding surrogate motherhood and test-tube babies. Relevant Commonwealth and Queensland legislation and regulations will be introduced and court decisions will be studied.

Credit Points: 12 Contact Hnnrs: 3 per week MAA251 STATISTICS & DATA PROCESSING 鱵

Offered: Spring

A basic subject in statistics, including statistical terminology and organisation of data, elementary probability, binomial and normal distribution, sampling theory, regression and correlation.

Prerequisite: Approval of Head of School of Mechanical and Manufacturing Engineering Credit Points: 8 Contact Hours: 2 per week



MAB001 MATHEMATICS FOR SCIENCE & TECHNOLOGY

Offered: Summer Term

Data handling; algebra; analytical geometry; trigonometry and calculus; vectors; complex numbers. Credit Points: 6

Contact Hours: 21 per week over four weeks Note: This subject is not compatible with MAB201 + MAB204; credit may not be retained for more than one of these subjects.

MAB151 QUANTITATIVE TECHNIQUES

Offered: Autumn

A basic mathematics unit with emphasis on the interpretation of data and the application of numerical techniques.

Credit Points: 4 Contact Hours: 2 per week

MAB173 QUANTITATIVE METHODS

To enable students to use mathematical reasoning and skills to obtain solutions to financial, economic and general business problems. On completion, students should have an understanding of the types of problems amenable to a mathematical solution; they should be able to develop appropriate mathematical models and appreciate any limitations or assumptions in the models and in addition they should be able to obtain solutions to these models.

Credit Points: 12 Contact Hours: 3 per week

MAB193 ENGINEERING MATHEMATICS I Offered: Full year

Accuracy, relative and absolute errors; solution of systems of linear equations, determinants; vectors; complex numbers; elementary matrix algebra; differential and integral calculus of one variable, elementary multiple integrals; centre of gravity and moment of inertia.

Credit Points: 6 Contact Hours: 3 per week

MAB199 SURVEY MATHEMATICS I

Offered: Autumn

Calculus: differentiation, partial differentiation, complex numbers, sequences and series, integration, applications. Matrix algebra; basic operations, linear equations, inversion, determinants, Cramer's rule. Coordinate geometry. Statistics.

Credit Points: 12 Contact Hours: 6 per week

MAB211 MATHEMATICS IA

Offered: Autumn, Spring Elementary functions; differentiation; integration; matrices.

Credit Points: 8 Contact Hours: 3 per week

MAB216 DISCRETE MATHEMATICS

Offered: Autumn Amomatic systems; modular arithmetic; finite groups; elementary number theory.

Co-requisite: MAB211

Credit Points: 8 Contact Hours: 3 per week Note: This subject is not compatible with MAB409; credit may not be retained for both.

MAB224 MATHEMATICS IB

Offered: Autumn, Spring

Integration; elementary ordinary differential equations; partial differentiation; analytic geometry. Prerequisite: MAB211

Credit Points: 8 Contact Hours: 3 per week

MAB225 MATHEMATICS IC

Offered: Spring

Introduction to vector algebra, complex numbers and in finite series.

Prerequisite: MAB211 Co-requisite: MAB224 Credit Points: 8 Contact Hours: 3 per week

MAB226 MATHEMATICS ID

Offered: Spring Limits and continuity, vector geometry; curve sketching. Prerequisite: MAB211 Co-requisites: MAB224 + MAB225 Credit Points: 8 Contact Hours: 3 per week

MAB227 STATISTICS

Offered: Autumn, Spring Data handling; probability; sampling; estimation; tests of hypothesis; regression and correlation; experimental design. Prerequisite: MAB211

Credit Points: 8 Contact Hours: 3 per week

💹 MAB301 CALCULUS & ANALYSIS A

Offered: Autumn, Spring

Real valued functions; differentiation; introduction to partial differentiation; integration; techniques of integration; elementary special functions. Credit Points: 10 Contact Hours: 3 per week

MAB302 CALCULUS & ANALYSIS B

Offered: Autumn, Spring

Infinite series; improper integrals; complex numbers; functions of complex variables, analyticity; introduction to differential equations. **Prerequisite:** MAB301

Credit Points: 10 Contact Hours: 3 per week

📓 MAB309 MODERN ALGEBRA

Offered: Autumn, Spring

Set theory; relations and functions; binary operations; number theory; group theory; rings and fields. Credit Points: 10 Contact Honrs: 3 per week Note: This subject is not compatible with MAB205; credit may not be retained for both.

🕅 MAB310 LINEAR ALGEBRA

Offered: Autumn, Spring

Matrices; vector spaces; linear transformations; eigenvalues and eigenvectors. Euclidean spaces; quadratic forms.

Credit Points: 10 Contact Hours: 3 per week Note: This subject is not compatible with MAB406; credit may not be retained for both.

MAB317 MATHEMATICAL STATISTICS I Offered: Autumn, Spring

Collection and representation of data, parameters and statistics; introduction to the theory of probability and probability distributions; elementary treatment of sampling theory leading to the normal, t, F and chi-squared distributions; statistical estimation and tests of hypotheses based on the normal, t, F and chi-squared distributions. **Co-requisite:** MAB301

Credit Points: 10 Contact Hours: 3 per week

MAB318 MATHEMATICAL STATISTICS IIA

Offered: Autumn, Spring Introduction to quality control, introduction to nonparametric tests of hypotheses; simple linear regression and introduction to multiple linear regression; correlation; fundamentals of one factor and two factor experimental design and the analysis of variance.

Prerequisites: MAB301, MAB317

Credit Points: 10 Contact Hours: 3 per week



MAB331 INTRODUCTORY VECTOR ANALYSIS

Offered: Autumn, Spring

Introduction to determinants; addition and subtraction of vectors; vector products, physical and geometrical applications; differential geometry of curves; conic sections; kinematics of a particle; relative motion. **Credit Points:** 10 **Contact Hours:** 3 per week

MAB342 MATHEMATICS OF FINANCE

Offered: Autumn, Spring Interest rates; solution of problems in compound interest; annuities; applications of annuities; capital redemption policies; valuation of securities; effects of taxation; introduction of basic modelling techniques. Credit Points: 10 Contact Hours: 3 per week Note: This subject is not compatible with MAB40; credit may not be retained for both.

MAB409 MODERN ALGEBRA

Offered: Autumn, Spring

Set theory, relations and functions, binary operations, number theory, group theory; rugs and fields. **Prerequisite:** MAB211

Credit Points: 10 Contact Hours: 3 per week Note: This subject is not compatible with MAB216; credit may not be retained for both.

MAB410 LINEAR ALGEBRA

Offered: Autumn, Spring

Matrices; vector spaces; linear transformations; eigenvalues and eigenvectors; Euclidean spaces; quadratic forms. Prerequisite: MAB225

Credit Points: 10 Contact Hours: 3 per week

MAB411 MATHEMATICS IIA

Offered: Autumn Laplace transforms; ordinary differential equations; multivariable calculus. Prerequisite: MAB225 Credit Points: 10 Contact Hours: 3 per week

MAB412 MATHEMATICS IIB

Offered: Autumn Fourier series; partial differential equations; vector analysis. Co-requisite: 412 Credit Points: 10 Contact Hours: 3 per week

MAB417 MATHEMATICAL STATISTICS A Offered: Autumn, Spring

Collection and representation of data, parameters and statistics; introduction to the theory of probability and probability distributions; elementary treatment of sampling theory leading to the normal, t, F and chisquared distributions; statistical estimation and tests of hypotheses based on the normal, t, F and chisquared distributions.

Prerequisite: MAB224

Credit Points: 10 Contact Hours: 3 per week

MAB418 MATHEMATICAL STATISTICS B Offered: Autumn, Spring

Introduction to quality control; non-parametric tests of hypothesis; simple linear regression and introduction to multiple linear regression, correlation; fundamentals of one factor and two factor experimental design and the analysis of variance

Prerequisite: MAB417

Credit Points: 10 Contact Hours: 3 per week * See note page 374

MAB425 MATHEMATICS 2C

Offered: Spring

Partial differentiation, complex analysis, differential equations; special functions. Prerequisite: MAB411

Credit Points: 10 Contact Hours: 3 per week

MAB442 FINANCIAL MATHEMATICS

Offered: Autumn, Spring

Interest rates, solution of problems in compound interest, annuities and applications; capital redemption policies; valuation of securities, effects of taxation; introduction to basic modelling techniques. **Prerequisite:** MAB211

Credit Points: 10 Contact Hours: 3 per week

MAB493 ENGINEERING MATHEMATICS II Offered: Full Year

Solution of systems of linear equations by direct and iterative methods, rank of a matrix; representation of a function by Taylor series, Maclaurin series, Fourier series; finite differences, polynominal interpolation, Newton-Gregory interpolation formula; solution of first and second order differential equations, operator-D and Laplace transform methods. Taylor series and Runge-Kutta techniques; basic descriptive statistics, probability theorems, distributions.

Prerequisite: MAB193

Credit Points: 6 Contact Hours: 3 per week

MAB495 SURVEY MATHEMATICS II

Offered: Spring

Calculus, Matrix algebra, Spherical trigonometry, Three dimensional co-ordinate geometry. Prerequisite: MAB199

Credit Points: 12 Contact Hours: 6 per week

MAB499 BASIC STATISTICS FOR SURVEYORS

Offered: Spring Descriptive statistics from

Descriptive statistics, frequency distributions and their graphical representation, probability, sampling, estimation, tests of hypothesis, regression and correlation. **Prerequisites:** MAB199 (R)*

Credit Points: 5 Contact Hours: 2 per week

MAB601 MULTIVARIABLE CALCULUS A

Offered: Autumn, Spring Differentiation, extrema, double integrals, triple integrals, surface integrals, complex integration. Prerequisites: MAB301 + MAB302 + MAB331 Credit Points: 10 Contact Hours: 3 per week

MAB602 MULTIVARIABLE CALCULUS C Offered: Spring

Vector algebra; scalar and vector fields; line integrals; surface integrals; differential field operators; the integral properties of fields; curvilinear coordinates; application to potential theory, hydrodynamic theory and electromagnetic theory; calculus of variations, functionals; Euler's differential equation; variational problems with subsidiary conditions.

Prerequisite: MAB331 Credit Points: 10 Contact Hours: 3 per week

MAB608 MATHEMATICAL STATISTICS IIB

Offered: Autumn, Spring

Properties and uses of the beta, gamma and exponential probability distribution; introduction to bivariate and multivariate distribution theory; multiple and curvilinear regression theory; three factor, factorial and fractional factorial experimental designs.

Prerequisite: MAB318 Co-requisite: MAB601 Credit Points: 10 Contact Hours: 3 per week



MAB610 APPLIED LINEAR ALGEBRA Offered: Spring

Vector spaces and matrices; vector and matrix norms; discrete Markov chains with a finite number of states; vector spaces over finite fields; quadratic forms, least square solution of linear equations; random vectors and matrices.

Prerequisite: MAB310 Co-requisite: MAB612 Credit Points: 10 Contact Hours: 3 per week

MAB612 DIFFERENTIAL EQUATIONS

Offered: Autumn, Spring

Vector spaces with inner product; linear operators in finite dimensional spaces; linear differential equations; series methods; Laplace transform; self adjoint boundary value problems and Fourier series; partial differential equations.

Prerequisite: MAB301 + MAB302 + MAB310 Credit Points: 10 Contact Hours: 3 per week

MAB618 NUMERICAL ANALYSIS I

Offered: Spring

Errors; systems of linear equations (direct methods); solution of non-linear equations; interpolation and approximation; numerical quadrature; numerical solution of first order differential equations.

Prerequisites: MAB301(R)* + MAB310(R)* + CSB305 or CSB155

Credit Points: 10Contact Hours: 3 per week

MAB619 NUMERICAL ANALYSIS II Offered: Autumn

Systems of linear equations (iterative methods); solution of non linear equations; interpolation and approximation; numerical quadrature; eigenvalue problem; ordinary differential equations. **Prerequisites:** MAB618 + MAB301 + MAB310

Credit Points: 10 Contact Hours: 3 per week

MAB635 CLASSICAL THEORETICAL MECHANICS

Offered: Autumn

Mathematical model of Newtonian mechanics; statics; conservation laws of dynamics; impulsive motion in one dimension; motion of a particle in one dimension, examples; motion of a particle in two dimensions, examples.

Prerequisites: MAB302 + MAB331

Credit Points: 10 Contact Hours: 3 per week

MAB637 OPERATIONS RESEARCH IA

Offered: Autumn, Spring

The simplex algorithm, simulation, replacement, maintenance and reliability; networks.

Prerequisites: MAB301 + MAB317 + MAB310 + CSB305 or CSB155

Credit Points: 10 Contact Hours: 3 per week

MAB638 OPERATIONS RESEARCH IB

Offered: Autumn, Spring

The revised simplex method; transportation and transshipment; assignment; parametric analysis; inventory; introduction to queueing.

Prerequisite: MAB637

Credit Points: 10 Contact Hours: 3 per week

MAB641 ACTUARIAL MATHEMATICS Offered: Autumn

The life table; demographic techniques; pure endowments and annuities; assurances; policy values; laws * See note page 374. of mortality; benefits depending on other contingencies; pension funds.

Co-requisite: MAB342

Credit Points: 10 Contact Hours: 3 per week MAB710 LINEAR ALGEBRA B

Offered: Spring

Vector spaces and matrices; vector and matrix norms; discrete Markov chains with a finite number of states; vector spaces over finite fields; quadratic forms, least square solution of linear equations; random vectors instrices.

Prerequisite: MAB410

Credit Points: 10 Contact Hours: 3 per week

MAB718 NUMERICAL ANALYSIS A

Offered: Autumn, Spring

Errors; systems of linear equations (direct methods); solution of non-linear equations; interpolation and approximation; numerical quadrature; numerical solution of first ordinary differential equations. **Prerequisites:** MAB224 + CSB155

Credit Points: 10 Contact Hours: 3 per week

MAB719 NUMERICAL ANALYSIS B

Offered: Spring

Systems of linear equations (iterative methods); solution of non linear equations; interpolation and approximation; numerical quadrature; eigenvalue problem; ordinary differential equations.

Prerequisites: MAB718 + MAB410

Credit Points: 10 Contact Hours: 3 per week

Offered: Autumn

Mathematical model of Newtonian mechanics; statics; conservation laws of dynamics; impulsive motion in one dimension; motion of a particle in one dimension; motion of a particle in two dimensions. **Prerequisites:** MAB411 + MAB226 or MAB412 **Credit Points:** 10 **Contact Hours:** 3 per week

MAB737 OPERATIONS RESEARCH

Offered: Autumn, Spring

The simplex algorithm, simulation; replacement, maintenance and reliability; networks.

Prerequisites: MAB417 + MAB410 + CSB155 Co-requisite: MAB442

Credit Points: 10 Contact Hours: 3 per week

MAB741 ACTUARIAL MATHEMATICS

Offered: Autumn The life table; demographic techniques; pure endowments and annuities; assurances; policy values; laws of mortality; benefits depending on other contingencies; pension funds.

Prerequisite: MAB211 Co-requisite: MAB442 Credit Points: 10 Contact Hours: 3 per week

MAB782 FIELD THEORY

Offered: Spring

Tensor analysis; curvilinear coordinates; application to potential theory, hydrodynamic and electromagnetic theory; calculus of variations, functionals. **Prerequisite:** MAB425

Credit Points: 10 Contact Hours: 3 per week

MAB788 MATHEMATICAL STATISTICS

Offered: Autumn, Spring

Properties and uses of the beta, gamma and exponential probability distribution; introduction to bivariate and multivariate distribution theory; multiple and curvilinear regression theory; three factor, factorial and fractional factorial experimental designs.

Prerequisites: MAB418 + MAB411

Credit Points: 10 Contact Hours: 3 per week



MAB795 SURVEY MATHEMATICS III

Offered: Autumn

Transformation in three dimensions: central projection, the nearparallel case. Numerical analysis: propagation of errors, solution of nonlinear equations. Approximation and interpolation. Solution of simultaneous linear equations, Gaussian climination, compact methods, Choclsky, iterative methods.

Prerequisite: MAB495

Credit Points: 6 Contact Hours: 3 per week

MAB893 ENGINEERING MATHEMATICS III Offered: Autumn

Eigenvalues and eigenvectors, quadratic forms, dctermination of dominant eigenvalue by iteration; sampling theory, hypothesis testing, linear regression and correlation, analysis of variance; introduction to linear programming.

Prerequisite: MAB493

Credit Points: 6 Contact Hours: 3 per week

MAB894 ENGINEERING MATHEMATICS IV Offered: Spring

Solution of linear systems of differential equations employing operator-D and Laplace transform methods, variation of parameters methods for nonhomogenous equations; solution of partial differential equations, separation of variables method, introduction to numerical techniques; complex variables, Cauchy-Riemann equations, conformal mapping. Prerequisite: MAB493

Credit Points: 6 Contact Hours: 3 per week

MAB906 TOPICS IN ANALYSIS

Offered: Spring

Topics selected from the following: measures; Lesbesque integrals; product of measures; normed spaces; metric spaces; constrained optimisation, Gateaux and Frechet derivatives.

Prerequisites: MAB601 + MAB612

Credit Points: 12 Contact Hours: 3 per week

MAB907 MATHEMATICAL STATISTICS IIIA

Offered: Autumn

Distributions of functions of random variables; estimation theory; introduction to multivariate normal distribution theory.

Prerequisite: MAB608

Credit Points: 12 Contact Hours: 3 per week

MAB908 MATHEMATICAL STATISTICS IIIB Offered: Spring

Experimental design; three factor designs, balanced incomplete designs, introduction to the analysis of covariance; introduction to stochastic processes; random walk, branching processes, Markov chains; sampling theory; random and stratified sampling: multi-stage sampling; probability proportional to size sampling.

Prerequisite: MAB608

Credit Points: 12 Contact Hours: 3 per week

MAB913 NUMERICAL ANALYSIS III

Offered: Spring

Approximation, numerical solutions of ordinary differential equations; partial differential equations; overview of finite element method.

Prerequisite: MAB619

Credit Points: 12 Contact Hours: 3 per week

MAB920 CODING & ENCRYPTION TECHNIQUES

Number theory, finite fields, linear shift registers, block coding theory, Cyclic codes, BCH and Reed-

Solomon codes, block coding techniques, convolutional codes, introduction to cryptography stream ciphers, block ciphers, public key systems, and secure speech communications.

Prerequisite: EEB661

Credit Points: 12 Contact Hours: 3 per week

MAB921 METHODS OF MATHEMATICAL PHYSICS A

Offered: Autumn

Equations of mathematical physics; mathematical methods, separation of variables; transform method; conformal transformation; theory of distributions and applications to Green's function method; finite difference method; two dimensional wave equations, examples; two dimensional heat equation, examples; two dimensional Laplace equation.

Prerequisite: MAB601 + MAB612

Credit Points: 12 Contact Hours: 3 per week

MAB924 APPLIED STATISTICAL TECHNIQUES

Offered: Spring

The general linear model; errors in variables; autocorrelation; single equation problems; simultaneous equations problems; estimation methods. Prerequisite: MAB608 Credit Pointer 12 Context Hours: 3 per week

Credit Points: 12 Contact Hours: 3 per week

MAB927 OPERATIONS RESEARCH IIA Offered: Autumn

Linear programming; integer and non-linear programming; dynamic programming; Heuristic methods. Prerequisite: MAB638

Credit Points: 12 Contact Hours: 3 per week

MAB928 OPERATIONS RESEARCH IIB Offered: Spring

Simulation; queueing; decision analysis; implementation in operations research. Prerequisite: MAB637

Credit Points: 12 Contact Hours: 3 per week

MAB929 STATISTICAL FORECASTING Offered: Autumn

Introduction; smoothing methods; decomposition methods; ARMA time series methods; Box-Jenkin method, causal models; quantitative and technological methods of forecasting; comparison and selection of forecasting methods.

Prerequisite: MAB608

Credit Points: 12 Contact Hours: 3 per week

MAB941 METHODS OF MATHEMATICAL ECONOMICS

Offered: Autumn

Mathematical models in economics; macroeconomic models; techniques for dynamic economic models; introduction to stability theory; stability of non-linear systems; optimisation theory; the maximum principles of Pontryagin; optimal economic growth. **Prerequisite:** MAB601 + MAB612

Credit Points: 12 Contact Hours: 3 per week

MAB960 PROJECT WORK

Offered: Autumn, Spring

Students, either individually or in small groups, undertake a substantial project which is relevant to the needs of industry and which is designed to give students insight into industrial requirements. Each student, or group of students, undertakes a different



project and is supervised, generally by a member of staff, throughout the duration of the project.

Prerequisite: Successful completion of at least two third level optional units in addition to all mandatory mathematics units.

Credit Points: 12 Contact Hours: 3 per week

MAN255 STATISTICS

Offered: Autumn

Development of a sound working knowledge of basic ideas and the application of this knowledge to situations frequently occurring in the fields of Analytical Chemistry.

Credit Points: 6 Contact Hours: 2 per week

MAP111 STATISTICAL METHODS IN QUALITY

Offered: Autumn

Describing variation, frequency distribution, histogram, estimation of parameters. Important distributions useful in describing quality-related phenomena, binomial, hypergeometric, Poisson, normal, exponential, Weibull. Approximations, Poisson to binomial, normal to binomial, etc. Sampling distributions. Interval estimation and tests of hypotheses. Type I and type II errors.

Credit Points: 6 Contact Hours: 3 per week

MAP121 STATISTICAL PROCESS CONTROL

Offered: Spring

Basic concepts and preliminary considerations. Control chart procedures for variables, S and R charts, pattern analysis and interpretation. Process capability study, natural tolerances, capability ratio, modified control charts. Attribute control charts, construction and interpretation of p, c and u charts. Cusum techniques for continuous data, scope and principles, procedure and interpretation, testing techniques - V mask, decision interval. Cusum applications to discrete data. SPC computer software.

Credit Points: 6 Contact Hours: 3 per week

MAP211 SAMPLING PROCEDURES

Offered: Autumn

Basic concepts and principles in sampling. Attribute batch sampling, sampling plans (single, double and multiple), O.C. curves. AS1199, terminology and definitions, choice of plan and switching rules. Attribute batch sampling with rectifying inspection, Dodge Romig procedure, use of tables. Attribute continuous sampling and the Dodge system (CSP-i etc). Sampling by variables, plans and procedures. AS2490, terminology and definitions, inspection rules.

Credit Points: 6 Contact Hours: 3 per week

MAP221 QUALITY PROBLEM SOLVING TECHNIQUES

Offered: Spring

Collection of data and use of check sheets. Histograin as a diagnostic tool. Pareto diagram, stratified data, use of weighted factors; Ishikawa chart, dispersion analysis and process classification type. Kepner Tregoe technique. Correlation analysis, scattergram and the Tukey corner test, independence and spurious correlation, regression equation and prediction. Design of experiments, principles and basic concepts, Latin Square design, factorial experiments, hierarchical designs.

Credit Points: 8 Contact Hours: 2 per week

MEB010 DYNAMICS I

A blending of simplified analysis with modelling methods for the more complex cases, thereby avoiding sophisticated mathematical methods, while still enabling the student to obtain quantitive answers. Motion, particularly as found in architecturally relevant machines and mechanisms. Forces due to inertia, impacts, and collisions: damage and vibration arising from them. Fluids, transmission in pipes and channels, mechanisms of erosion, forces exerted on structures. Methods of measurement. Making and testing and deriving the required data from them. Techniques of modelling with readily available materials and easily constructed models.

Credit Points: 4 Contact Hours: 2 per week

MEB012 DYNAMICS II

Continuation of the work of Dynamics I in which both the methods of analysis and modelling are developed further, but the emphasis changes to application and the development of competent performance. Further treatment of machines and mechanisms. Unbalanced forces in rotating bodies and gyroscopic effects. Vibrations due to unbalance; how they may be determined and eliminated. Earthquakes and their effects. Interaction of fluids and structures under gusty conditions, ocean waves, and natural phenomena. Further work on measurements. Students will undertake model studies of more realistic cases.

Prerequisite: MEB010 Credit Points: 4 Conta

Credit Points: 4 Contact Hours: 2 per week MEB031 MATERIALS TECHNOLOGY

Offered: Autumn

A series of lectures and practical sessions to introduce the student to the important structure property relationships which exist in the common materials used for orthotics. The modes of failure of these materials and elementary selection procedures are also discussed.

Credit Pnints: 8

Contact Hours: 2 per week

MEB101 DESIGN I

Offered: Spring

This introductory subject in mechanical design covers the selection of basic machine elements based on their function, size and capacity as part of a mechanical system. **Prerequisites:** MEB121, CEB184 Co-requisites: MEB133, CEB185, MEB111

Credit Points: 8 Contact Hours: 3 per week

MEB111 DYNAMICS

Offered: Spring

Basic concepts of the principles of dynamics including kinetics of particles and systems of particles in plane motion. Applications include the use of coordinate systems, relative motion, various methods for the solution of mechanisms, freebody diagrams, work-energy equations, impulse momentum and impact.

Credit Points: 7 Contact Hours: 3 per week

MEB121 ENGINEERING GRAPHICS

Offered: Autumn

An introductory subject in engineering graphics covering the application of the principles of geometric drawings. Topics include orthographic projection, auxiliary views, sectioning, use of manufacturing symbols, dimensioning and tolerancing, pictorial views and sketching. Computer aided drafting is introduced. **Credit Points: 6 Contact Hours: 3** per week

🖾 MEB133 MATERIALS I

Offered: Spring

An introductory series of lectures and practical classes on the basic concepts of materials science including phase changes, elasticity, plasticity, recovery, recrystallisation, grain growth, failure modes and strengthening



mechanisms. An outline is given of the nature and engineering properties of ceramics, polymers, composites and metallic materials with some reference to joining methods and degradation processes.

Credit Points: 6 Contact Hours: 3 per week

MEB171 INTRODUCTION TO MANUFACTURING

Offered: Autumn

This subject sets out firstly to examine the role of manufacturing industry in generating wealth and its contribution to the Australian economy. It then introduces modern concepts in manufacturing systems design. The interrelationship between design. materials selection, manufacturing, processes, marketing and information processing of products will be presented. The remaining topics will include the choice of manufacturing technologies in relation to product quantity and quality.

Credit Points: 3 Contact Hours: 1.5 per week

MEB173 MANUFACTURING PRACTICE

Offered: Autumn

This subject examines the role of manufacturing industry in generating wealth and its contribution to the Australian economy, modern concepts in manufacturing systems design. The interrelationship between design, materials selection, manufacturing processes, marketing and information processing of products. Other topics will include the choice of manufacturing technologies in relation to product quality and quantity. Students have hands-on experience in manufacturing processes, metrology laboratory and systems modelling and simulation by computers.

Credit Points: 7 Contact Hours: 3 per week

MEB230 MATERIALS II

Offered: Autumn

A series of lectures and practical classes to introduce students to the general nature and design properties of both cast and wrought metallic alloys. An introduction is given to the metallurgical effects of welding. Prcrequisite: MEB133

Credit Points: 6 Contact Hours: 3 per week

MEB231 MATERIALS III

Offered: Spring

Introduction to fracture mechanics; linear elastic fracture mechanics and its application to static design and fatigue crack growth. The structure and properties of polymers, composites and engineering ceramics. Prerequisite: MEB133

Credit Points: 6 Contact Hours: 3 per week

MEB250 THERMODYNAMICS 1

Offered: Autumn

A series of lectures with tutorial and practical periods to introduce the basics of engineering thermodynamics such as reversibility, first and second laws of thermodynamics, applications to heat engines, compressors, engines testing etc. Particular emphasis being given to single phase systems. Field visit. Credit Points: 6 Contact Hours: 3 per week

MEB251 THERMODYNAMICS II

Offered: Spring

A series of lectures, tutorials and practical periods on steam plant, nozzles, impulse and reaction turbines, gas turbines and refrigeration. Field visit.

Prerequisite: MEB250

Credit Points: 6 Contact Hours: 3 per week

MEB313 MECHANICS I

Offered: Autumn

Kinematic and dynamic analysis of linkages and mechanisms and linkage synthesis applied to spatial mechanisms and robotics. The design and synthesis of cams and the kinematic analysis of gears. Prerequisites: CEB184, MEB111, CEB185

Credit Points: 6 Contact Hours: 3 per week

MEB339 MATERIALS & MANUFACTURING PROJECT

Offered: Autumn and Spring

The project introduces the student to supervised, self regulated research of a specific topic associated with materials engineering or manufacturing engineering. The project normally requires a survey of literature specific to the given topic, organised experimental procedure and the preparation of a formal report. Prerequisite: MEB231

Credit Points: 6 Contact Hours: 3 per week

MEB361 FLUIDS I

Offered: Autumn

A first subject in fluid mechanics which considers the fluid properties most relevant to mechanical engineering practice. The subject deals in some detail with forces in a fluid at rest and its action on submersed and floating bodies. Manometry, pressure distribution in a liquid subjected to acceleration, different types of flow, momentum and energy-equations, flow through orifices and vortex flow are also included.

Prerequisites: MEB111, PHB132, MAB193

Credit Points: 6 Contact Hours: 3 per week

MEB370 MANUFACTURING SYSTEMS I Offered: Autumn

Lectures and practical work to cover practical machining principles, machine tool metrology and principle of joining and fasteners. Prerequisite: MEB171

Credit Points: 6 Contact Hours: 3 per week

MEB381 DESIGN II

Offered: Autumn

The subject develops a methodology for the design of machines and machine elements to determine appropriate component dimensions and materials which will ensure satisfactory functional performance, strength and fatigue life. It will develop skills in the use of both manual and computer-aided numerical and graphical techniques in a design environment.

Prerequisites: MEB121, MEB101, CEB184, CEB185 Co-requisite: MEB313

Credit Points: 6 Contact Hours: 3 per week

MEB408 PROJECT A (MECHANICAL)

Offered: Spring

The student is required to investigate in depth and present a formal report on a problem area taken from the full range of mechanical engineering practice. Project may arise through investigation in applied research programs or specific topic from industry. Prerequisite: MEB339 Co-requisite: MEB489 Credit Points: 16 Contact Hours: 6 per week

MEB409 PROJECT B (MECHANICAL)

Offered: Full year

The student is required to investigate in depth and present a formal report on a problem area taken from the full range of mechanical engineering practice. Project may arise through investigation in applied research programs or specific topic from industry. Prerequisite: MEB339 Co-requisite: MEB489 Credit Points: 8 Contact Hours: 3 per week



MEB411 THEORY OF MACHINES

Offered: Spring

Balancing of mechanisms and rotors; gyroscopic effects in mechanisms, rotors and vehicles; gear trains, simple and epicyclic; friction and centrifugal devices such as clutches and governors.

Prerequisites: MEB111, CEB184, CEB185 Credit Points: 7 Contact Hours: 3 per week

MEB450 AIR CONDITIONING

Offered: Autumn

Lectures and laboratory work to cover the theory and its application to the following topics: psychrometry, heating and cooling load calculations, air conditioning systems, vapour compression, refrigeration cycle analysis, multipressure systems, absorption refrigeration. Field visit.

Prerequisites: MEB251, MEB462

Co-requisite: MEB550

Credit Points: 7 Contact Hours: 3 per week

MEB462 FLUIDS II

Offered: Spring

A second subject in fluid mechanics for mechanical engineering students. It concentrates on fluid flow in closed conduits, rotodynamic machines, and hydraulic transmissions. It also includes water hammer in pipes and introduces dimensional analysis and dynamic similarity.

Prerequisite: MAB193

Co-requisites: MEB361, MAB493 Credit Points: 6 Contact Hours: 3 per week

MEB463 TRIBOLOGY

Offered: Spring

A series of lectures and supporting practical work on the fundamentals of tribology. The subject demonstrates the multidisciplinary nature of the subject and shows how it is an integral part of machine design, reliability and maintenance.

Credit Points: 6 Contact Hours: 3 per week

💹 MEB464 FLUIDS III

Offered: Autumn

A more advanced subject in fluids for mechanical engineering students. The subject includes boundary layer theory and a more general approach to viscous flow via the Navier-Stokes and Reynold's equations. **Prerequisites:** MEB462, MAB893

Credit Points: 7 Contact Hours: 3 per week

MEB471 MANUFACTURING ENGINEERING I

Offered: Spring

Lectures and laboratory work to cover practical machining principles and machine tool metrology. Credit Points: 6 Contact Hours: 3 per week

MEB472 MANUFACTURING SYSTEMS II

Offered: Spring

Lectures and experimental work to cover fundamentals and applications of plastic theory in the deformation of metals and plastics. Concepts and applications of non-traditional machining and forming processes. Introduction of numerical control technology and practical applications in NC part programming.

Prerequisite: MEB370

Credit Points: 6 Contact Hours: 3 per week

MEB483 DESIGN III

Offered: Spring

The subject continues from MEB381 and further develops the design of machine elements including mechanisms, welded structures, flexible members, journal bearings using the principles of engineering mechanics to analyse loads and to determine appropriate materials and component dimensions to ensure satisfactory performance of strength and functional requirements. It will extend skills in the use of both manual and computer-aided numerical and graphical techniques in a design environment.

Prerequisites: MEB121, MEB101, MEB133, MEB111, CEB102, CSB191, CEB184 Co-requisites: MEB411, MEB231, MEB313

Credit Points: 7 Contact Hours: 3 per week

MEB489 MECHANICAL DESIGN PROJECT

Offered: Full year

Projects drawn from cither QUT or from outside organisations will be assigned to teams of (generally) three students, who will work as groups to apply theroetical mechanical engineering principles, tempered by practical considerations, to the solution of design problems. Each team will design, draw, specify and (in most instances) supervise the manufacture of a piece of mechanical engineering hardware.

Prerequisites: MEB483, MEB610, MEB511, MEB773 Co-requisites: MEB772, MEB911 Credit Points: 7 Contact Hours: 3 per week

MEB500 SPECIAL TOPIC I

Offered: Autumn

A series of loctures and tutorials in subject areas which are of special professional relevance to the student's intended career path, or which may be available on occasions from visiting scholars and which may be relevant and important to the undergraduate program.

Prerequisite: Students will need to have achieved an appropriate level of preparation in the topic area concerned. Co-requisite: Will depend on the syllabus of the particular special topic offered

Credit Points: 7 Contact Hours: 3 per week

MEB510 NOISE & VIBRATIONS

Offered: Autumn

Introduction to noise and vibration measurements and instruments, free and forced vibration, normal mode vibration, Holzer's method, Mykelstad's method. Noise levels, A-weighting, leq, SEL, noise dose and standards. Sound power, absorption, fields and the behaviour of sound relating to rooms, enclosures and partitions.

Prerequisites: PHB132, MAB493

Co-requisite: MAB893 Credit Points: 7 Contact Hours: 3 per week

MEB511 STRESS ANALYSIS

Offered: Autumn

Analysis of strain and stress; including strain-displacement relations and stress and strain transformation. Two-dimensional problems including curved bars, thick-walled cylinders and rotating discs. Tension of prismatic bars and thin-walled sections. Failure criteria and their applications. Experimental strain measurement and analysis. Credit Points: 7 Contact Hours: 3 per week

MEB531 ADVANCED MATERIALS

Offered: Autumn

The subject reviews modern composite materials to give an understanding of their properties, failure modes and uses. The important structural ceramics and high strength metallic materials are also con-



sidered. A treatment is given of special use materials which will be of future importance and the available materials and surface treatment processes to control frictional and wear performance

Prerequisites: MEB230, MEB231

Credit Points: 7 Contact Hours: 3 per week

MEB550 HEAT TRANSFER

Offered: Autumn

A subject of lectures, tutorials and practical periods which cover the following topics: conduction (steadystate, 1 and 2 dimensions, unsteady-state), convection (boundary layers, forced, natural) and radiation (black and grey bodies, shape factors, shielding, network simulation).

Credit Points: 6 Contact Hours: 3 per week MEB571 MANUFACTURING

ENGINEERING II Offered: Autumn

Lectures and experimental work to cover fundamentals and applications of plasticity theory in the deformation of metals and plastics. Analysis of forming machine performance and selection of machine tools will also be given.

Credit Points: 6 Contact Hours: 3 per week

MEB601 SPECIAL TOPIC II

Offered: Spring

A series of lectures and tutorials in subject areas which are of special professional relevance to the student's intended career path, or which may be available on occasions from visiting scholars and which may be relevant and important to the undergraduate program. Prerequisite/Co-requisite: As for MEB500

Credit Points: 7 Contact Hours: 3 per week MEB610 MECHANICS II

Offered: Spring

Introduction to mechanical frames and methods of analysis, with the emphasis placed on investigation the effects of static and dynamic loading upon frames and frame members.

Prerequisites: MEB411, MAB493, MEB510

Co-requisite: MEB511

Credit Points: 6 Contact Hours: 3 per week MEB640 AUTOMATION I

Offered: Spring

The subject takes the students' knowledge of mathematics and shows how this may be applied to: model mechanical systems; predict system response to a given input; modify system parameters to obtain a more desirable response.

Prerequisite: MAB493

Credit Points: 7 Contact Hours: 3 per week MEB650 THERMODYNAMICS III

Offered: Spring

Properties and testing methods of solid, liquid and gaseous fuels. Combustion calculations. Flue gas analysis, Energy tariffs and audits. Major applications of energy management, e.g., buildings, process plant, compressed air systems, vehicle fleets, etc. Economic evaluation of energy projects. Introduction and management of energy saving programs, Field visit. Prerequisites: MEB550, MEB251

Credit Points: 6 Contact Hours: 3 per week MEB660 FLUID POWER

Offered: Spring

This subject analyses selected fluid systems to show how the performance characteristics of individual components interact to affect overall efficiency. Prerequisite: MEB462

Credit Points: 6 Contact Hours: 3 per week

MEB670 INDUSTRIAL ENGINEERING I

Offered: Spring

Lectures and laboratory work to provide training in some of the basic techniques for assisting in making decisions in policy, product, process, plant and project control

Credit Points: 6 Contact Hours: 3 per week

MEB673 MANUFACTURING ENGINEERING III

Offered: Spring

Lectures and experimental work to cover advanced topics related to manufacturing technology including some non-traditional material removal processes and optical metrology. An introduction to CAD/CAM and robotics will be presented.

Prerequisite: MEB471

Credit Points: 7 Contact Hours: 3 per week

MEB680 ADVANCED MECHANICAL DESIGN

Offered: Spring

This subject will introduce topics appropriate to the application of modern materials and analytical techniques to the design of a wide range of machines. It will include lectures and case studies on statistical analysis of failures and the application of the information to improvement of designs; applications of advanced materials science in design, including applications of fracture mechanics techniques to optimisation of fatigue life, and computer-aided methods for optimising selection of both metallic and non-metallic materials; techniques for analysis and synthesis of mechanisms.

Prerequisites: MEB483, MEB230, MEB231, MEB411

Credit Points: 7 Contact Hours: 3 per week

MEB701 SPECIAL TOPIC III

Offered: Autumn

A series of lectures and tutorials in subject areas which are of special professional relevance to the student's intended career path, or which may be available on occasions from visiting scholars and which may be relevant and important to the undergraduate program. Prerequisite/Co-requisite: As for MEB500

Credit Points: 7 Contact Hours: 3 per week

MEB710 AUTOMATION II

Offered: Autumn

The subject requires students to use computer packages developed for use in control system design (e.g., Matrix, 'X'). The student will be taught the fundamentals of discrete time systems theory and be introduced to instrumentation used in the acquisition and analysis of digital data (e.g., Labtech). Students will continue work on the use of Programmable Logic Controllers.

Prerequisites: MEB640, MEB660 Credit Points: 7

Contact Hours: 3 per week

MEB771 INDUSTRIAL ENGINEERING II Offered: Autumn

Lectures and laboratory work to provide basic techniques used for the planning and control of operational or manufacturing systems. Prerequisites: MEB670

Credit Points: 6 Contact Hours: 3 per week

MEB772 ENGINEERING PROJECT APPRAISAL

Offered: Autumn

This subject will introduce students to rational economic analysis of engineering projects, both at the



product level and at the project level. It will cover techniques needed to establish the cost of a project, and to make comparisons between alternative projects in a climate of scarce resources. It will outline techniques for determining design changes needed to reduce the manufacturing cost of a product, and will outline strategies for new product planning.

Prerequisites: MEB483, MEB339, MEB472

Co-requisites: MEB773, MEB670

Credit Points: 7 Contact Hours: 3 per week MEB773 DESIGN FOR

MANUFACTURING I

Offered: Autumn

Value analysis and principles related to product design. Design of jig and fixtures, cutting tools applicable for various machining operations including assembly. Prerequisite: MEB171

Credit Points: 7 Contact Hours: 3 per week

MEB800 SPECIAL TOPIC IV

Offered: Spring

A series of lectures and tutorials in subject areas which are of special professional relevance to the student's intended career path, or which may be available on occasions from visiting scholars and which may be relevant and important to the undergraduate program. **Prerequisite/Co-requisite:** As for MEB500

Credit Points: 7 Contact Hours: 3 per week MEB810 INDUSTRIAL NOISE &

VIBRATION

Offered: Spring

Vibration measurements, spectrum analysis, special methods, Kurtosis, Cepstrum, envelope analysis, averaging, gear, bearing and rotor vibration. Whole body and arm vibration. Noise measurements, noise power, industrial standards, attenuation methods.

Prerequisite: MEB510 Credit Points: 7 Col

Credit Points: 7 Contact Hours: 3 per weck

Offered: Full ycar

The student is required to investigate in depth and present a formal report on a problem area taken from the full range of manufacturing engineering practice. Project may arise through investigation in applied research programs or specific topic from industry. **Credit Points:** 12 **Contact Hours:** 3 per week

MEB911 FINITE ELEMENT ANALYSIS

Offered: Autumn

General description of the finite element method, static and dynamic analysis of mechanical engineering problems, review of finite element packages. Examination by assignment only.

Prerequisites: MEB462, MEB550, MEB610, MEB511

Credit Points: 7 Contact Hours: 3 per week

MEB950 PROCESS PLANT DESIGN

Offered: Spring

An introduction to the design of duct and industrial pipework system design. Pressure vessel design methods, Field visits.

Prerequisites: MEB251, MEB462

Co-requisite: MEB511

Credit Points: 7 Contact Hours: 3 per week

MEB960 FLUID SYSTEMS DESIGN

Offered: Spring

This subject analyses selected fluid systems to show how the performance characteristics of individual components interact to affect the overall efficiency. **Co-requisite:** MEB464

Credit Points: 7 Contact Hours: 3 per week

MEB974 DESIGN FOR MANUFACTURING II

Offered: Spring

Lectures and practical applications in the design of press tools, dies for forming operations and joining processes including an overview of CAD in tool and die design.

Prerequisite: MEB571

Credit Points: 7 Contact Hours: 3 per week

MEB975 DESIGN OF MANUFACTURING SYSTEMS

Offered: Spring

Design and integration of flexible fixtures, palletisers and conveyors to FMS. The use of robots and automatic guided vehicles in materials handling. Total integrated manufacturing systems. Selection of machine tools for CIM implementation.

Prerequisites: MEB976, MEB977

Credit Points: 7 Contact Hours: 3 per week

MEB976 COMPUTER INTEGRATED MANUFACTURING

Offered: Spring

Lectures and applications to cover basic requirements for implementing CAD/CAM systems. Component design using geometric modelling techniques. Classification systems for part family formation and computer aided process planning. Concepts and applications of Flexible Manufacturing Systems (FMS). Credit Points: 7 Contact Hours: 3 per week

MEB977 COMPUTER CONTROL OF MANUFACTURING SYSTEMS

Offered: Autumn

Lectures and experimental work on the use of computers in machine tool control. Computer control of production systems. Control of NC and CNC inachines and advanced programming techniques. Control of robots.

Prerequisite: MEB976

Credit Points: 7 Contact Hours: 3 per week

MEB978 MANUFACTURING SYSTEMS ENGINEERING

Offered: Autumn

Lectures and laboratory to describe and demonstrate concepts and fundamentals of manufacturing system analysis and production management.

Credit Points: 7 Contact Hours: 3 per week

MEB980 DESIGN OF POWER TRANSMISSION SYSTEMS

Offered: Autumn

Lectures and design office tutorials covering the design of systems for the generation and transmission of mechanical power, including both solid elements (gears, clutches, belts etc) and fluid elements (pneumatic and hydraulic).

Prerequisites: EEB209, MEB411, MEB313, MEB483

Co-requisites: MEB510, MEB511

Credit Points: 7 Contact Hours: 3 per week

MEB981 DESIGN OF MATERIALS HANDLING SYSTEMS

Offered: Spring

A series of lectures and design office projects covering the design of bulk material conveying and process plant, storage silos and bins, ground stockpiling systems, and the associated supporting structures.

Prerequisites: MEB483, MEB411, CEB184, CEB185, MEB111, MEB511

Credit Points: 6 Contact Hours: 3 per week



MEP173 QUALITY PLANNING

Offered: Autumn

Survey and appraisal of procedures. The specification of standards. Establishing the quality manual of procedures. Quality audit principles. Control using automatic, statistical/human methods. Source inspection methods. Introduction to basic control loop techniques - open, closed and manually closed. Quality data collection and analysis. Control of instruments and gauges and its relationship to physical standards.

Credit Points: 6 Contact Hours: 1.5 per week

MEP201 SAFETY TECHNOLOGY & PRACTICE I

Offered: Spring

To provide an overview of models of the accident phenomenon. To provide the technological background necessary for the understanding of potential hazards with electrical power, on construction sites and with mechanical equipment. To develop an understanding of the failure modes of materials and the influence of material properties and defects on failure. **Credit Points:** 12 **Contact Hours:** 3 per week

MEP273 QUALITY MEASUREMENT & TESTING

Offered: Spring

Introduction to measurement, inspecting and testing. Definitions, standards. Measurement by observation or instrumentation as applied to any process or procedure, calibration systems, techniques and applications. Acceptance inspection, inspection planning and applications. Testing principles and procedures, types, uses. Instrumentation of test facilities. Laboratory quality assurance. Data analysis and uncertainties. Laboratory and facility management. **Credit Points:** 6 **Contact Hours:** 1.5 per week

MEP301 SAFETY TECHNOLOGY & PRACTICE II

Offered: Autumn

This subject develops the basic concepts introduced in Safety Technology and Practice I. Importance is placed upon accident prevention and hazard recognition, analysis and control and risk management. The role, design, effective use and maintenance of personal protection equipment will also be addressed. **Prerequisite:** MEP201

Credit Points: 12 Contact Hours: 3 per week

MEP371 RELIABILITY & MAINTAINABILITY

Offered: Autumn

Introduction to reliability and maintainability. Relationship between reliability and quality. Relationship between designer, manufacturer and operator. Means of achieving high reliability and maintainability. Fundamental theory of reliability. Reliability data analysis. Practical applications of Weibull's distribution to reliability and maintainability. Modelling for reliability. Computerised maintenance systems, economics and systems availability.

Credit Points: 6 Contact Hours: 1.5 per week

MEP473 QUALITY SYSTEMS & ASSESSMENT

Offered: Spring

Review of Australian Standards 1821-23, 2000 and other project quality systems standards. Quality assessment schemes. How to conduct an audit based on the standards. The interaction between quality manual, quality system and quality plan. Queensland state purchasing policy requirements. Australian Standards supplier assessment scheme. Credit Points: 8 Contact Hours: 2 per week

Credit Points: 8 Contact Hours: 2 per week

MET101 ENGINEERING DRAWING Offered: Autumn

Presentation of graphical data, orthographic drawings, survey plans and the preparation of circuit diagrams and other drawings relevant to an electrical or electronics engineering associate. The use of computers in drawing.

Credit Points: 7 Contact Hours: 3 per week

MET120 ENGINEERING DRAWING I

Offered: Autumn

Lettering and linework. Introduction to computer graphics. Principles of third angle projection, sectional views. Pictorial drawings. Introduction to assembly drawings.

Credit Points: 7 Contact Hours: 3 per week

MET121 DRAFTING PRACTICE IA

Offered: Autumn

A series of short, practical exercises to cover the highest possible range of drafting experience commensurate with the first year students stage of development.

Co-requisites: MET120

Credit Points: 3 Contact Hours: 3 per week

MET123 ELECTRICAL ENGINEERING DRAWING IA

Offered: Autumn

Tuition and practice in the preparation of block diagrams, logic diagrams and circuit diagrams. **Co-requisite:** MET120

Credit Points: 3 Contact Hours: 3 per weck

MET140 ENGINEERING MATERIALS I Offered: Autumn

A series of lectures and practical work dealing with the general properties of materials, materials selection, service requirements and properties of ferrous and nonferrous metals and alloys, corrosion types and prevention, testing procedures, plastics, ceramics and other materials.

Credit Points: 8 Contact Hours: 3 per week

MET141 MATERIALS (CIVIL)

Offered: Autumn and Spring

Properties of common ferrous and nonferrous metals and alloys. Timber, bricks, bitumen and plastics. Corrosion mechanism and protective systems. Quality control of engineering materials.

Credit Points: 7 Contact Hours: 3 per week

MET170 MANUFACTURING TECHNOLOGY

Offered: Spring

The subject covers the basic methods of converting raw material into manufactured goods and includes an introduction to metrology and safety in the work place. Credit Points: 8 Contact Hours: 3 per week

MET171 TRADE TRAINING IA Offered: Autumn

This workshop practice subject provides skill training in basic fitting and welding. The subject will emphasise the practical and applied aspects of fitting and welding skills.

Credit Points: 6 Contact Hours: 7 per week



MET175 WORKSHOP TRAINING (MECHANICAL) IA

Offered: Autumn

An introduction to workshops and field training, the use of sketches, working drawings, materials, safety and legal requirements.

Credit Points: 3 Contact Hours: 3 per week

MET201 APPLIED MECHANICS

Offered: Spring

This subject covers the fundamentals of statics, friction, velocity and acceleration, inertia and change of motion, dynamics of rotation, periodic motion, balancing, work and energy, impulse and momentum, strain and stress, fluids at rest and in motion.

Contact Hours: 3 per week Credit Points: 7

MET210 APPLIED MECHANICS I

Offered: Autumn

Consideration of force and its effects. Equilibrium, moments of forces. Displacement, velocity and acceleration, inertia. Friction and friction machines. Contact Hours: 3 per week Credit Points: 8

MET220 ENGINEERING DRAWING II Offered: Spring

Advanced sectioning, auxiliary projections including graphical and computer graphics. Intersections and surface developments.

Prerequisite: MET120

Credit Points: 8 Contact Hours: 3 per week

MET221 DRAFTING PRACTICE IIA

Offered: Spring

Introduction to geometric tolerances. Cam and gear geometry. Spatial geometry covering true shapes, angles and planes. Basic mechanical drive component selection. Co-requisite: MET220

Credit Points: 3 Contact Hours: 3 per week

MET223 ELECTRICAL ENGINEERING DRAWING IIA

Offered: Spring

Tuition and practice in preparation of printed circuit board layout, equipment and plant layouts, power transformer construction drawings and single line diagrams. Prerequisite: MET120 Co-requisite: MET220 Credit Points: 3 Contact Hours: 3 per week

MET250 THERMODYNAMICS

Offered: Autumn

A series of loctures and tutorials with practical periods to introduce the basic engineering thermodynamics concepts, viz. systems, reversibility, first and second law, and the working fluids. IC engine cycles and simple performance evaluations.

Contact Hours: 3 per week Credit Points: 6

MET271 TRADE TRAINING IIA

Offered: Spring

This subject provides skill training in basic metal machining techniques. The subject will emphasise the practical and applied aspects of turning, milling, shaping, surface and cylindrical grinding.

Credit Points: 6 Contact Hours: 7 per week

MET310 APPLIED MECHANICS II

Offered: Spring

Work, power and energy; efficiency. Introduction to simple machines. Mechanical advantage and velocity ratio. Hydrostatics and fluid friction. Section propertics, shearing force and bending moments, torsion. Credit Points: 8 Contact Hours: 3 per week

MET320 ENGINEERING DRAWING III Offered: Autumn

Advanced dimensioning techniques. Structural drafting. Simple tolerancing. Assembly and workshop drawings. Selection of rolling element bearing. Prerequisites: MET120, MET220

Credit Points: 6 Contact Hours: 3 per week

MET350 PROCESS ENGINEERING Offered: Spring

A series of lectures, tutorials and practical periods related to the following topics: steam plant, positive displacement compressors, refrigeration plant, positive expanders, reciprocating engines and gas turbines. Prerequisite: MET250

Contact Hours: 3 per week Credit Points: 7

MET352 REFRIGERATION & AIR CONDITIONING

Offered: Spring

Ideal and actual refrigeration cycles including variation of operating conditions and cycles. Performance of refrigeration equipment. Psychrometry, cooling load estimation. Air supply systems.

Prerequisite: MET250

Credit Points: 7 Contact Hours: 3 per week

MET420 ENGINEERING DRAWING IV Offered: Spring

Presentation of drafting techniques as applied in electrical, pipework and air-conditioning hydraulic and oneumatic systems using computer graphics.

Prerequisite: MET120, MET220 Credit Points: 7 Contact Hours: 3 per week

MET421 MECHANICAL PROJECT IA Offered: Spring

Report and presentation. A complete project selected from a prepared list, each dealing with a specific engineering environment. Prerequisite: MET221

Credit Points: 3 Contact Hours: 3 per week

MET433 ENGINEERING MATERIALS II

Offered: Spring

A series of lectures and practical periods dealing with the properties and selection of advanced engineering materials. Co-requisite: MET140

Credit Points: 8 Contact Hours: 3 per week

MET475 WORKSHOP (MECHANICAL) IIIA Offered: Autumn

An introduction to workshop machines and practices. Co-requisite: MET175

Credit Points: 3 Contact Hours: 3 per week

MET511 NOISE, STRESS & VIBRATION PRACTICE

Offered: Autumn

Instrumentation used to measure vibrations, noise and stress. Fundamental principles and equations related to such measurement including vibration isolation, noise standards and stress/strain transformations.

Co-requisites: MET210, MET310

Credit Points: 6 Contact Hours: 3 per week

MET560 THERMOFLUIDS

Offered: Autumn

Fluid statics, fluid flow and measurement, dimensionless groups, elementary heat transfer by conduction, convection and radiation.

Credit Points: 8 Contact Hours: 3 per week



MET572 PRODUCTION PLANNING & CONTROL

Offered: Autumn

A series of lectures involving the sequence of production planning and management control.

Prerequisite: MET171

Credit Points: 6 Contact Hours: 3 per week

MET573 CAD/CAM TECHNOLOGY

Offered: Spring

Introduction to the fundamentals of CAD/CAM and geometrical modelling. A series of lectures in automated process planning. Tutorials together with practical applications in CNC programming and economics of machine tools. The use of robots and principles of integrated manufacturing systems. Credit Points: 7 Contact Hours: 3 per week

MET580 MACHINE ELEMENTS I

Offered: Autumn

The practical application of shear force and bending moment diagrams and selection of components from BHP manual. Use of handbooks, codes and rolled steel section tables in the selection and use of bolted and welded connections. The application of standard rolled steel sections. The selection of shafts.

Prerequisites: MET210, MET120, MET220

Credit Points: 6 Contact Hours: 3 per week

MET600 MATERIALS FOR ELECTRICAL ENGINEERS

Offered: Spring

A series of lectures and practical work dealing with the general properties of materials, materials selection, service requirements and properties of ferrous and nonferrous metals and alloys, corrosion types and prevention, testing procedures, plastics, ceramics and other materials.

Credit Points: 4 Contact Hours: 1.5 per week

MET601 MECHANICAL PLANT

Offered: Spring

A study of manufacturing processes and workshop practices, power station equipment (turbines and boilers), mining machinery, air-conditioning equipment, fans and pumps, hoists, compressors, cranes, welding. Heat transfer principles.

Credit Points: 3 Contact Hours: 1.5 per week

MET650 PLANT ENGINEERING IA

Offered: Spring

A series of investigatory practical sessions related to design parameters, performance characteristics and plant maintenance practices associated with engineering plant systems, the machinery within the system and maintenance procedures.

Credit Points: 3 Contact Hours: 3 per week

MET680 MACHINE ELEMENTS II

Offered: Spring

Selection and application of shafts and coupling. Selection of spunhelical worm reduction unit. Determination of gear forces. Selection springs and brakes. Curved beams.

Prerequisite: MET580

Credit Points: 7 Contact Hours: 3 per week

MET733 INDUSTRIAL METALLURGY

Offered: Autumn

A course of lectures and practical work covering techniques in casting and metallurgical advances in materials and their evaluation.

Prerequisite: MET433

Credit Points: 6 Contact Hours: 3 per week

MET782 JIG & TOOL DESIGN

Offered: Autumn

Design of jig and fixtures for various machine operations and assembly. Principles in design of blanking and forming dies. Special forming techniques. Dies used in blow and injection moulding. Simple press capacity calculation.

Prerequisite: MET171

Credit Points: 6 Contact Hours: 3 per week

MET850 ENERGY MANAGEMENT

Offered: Autumn

Tariff framing and objectives, energy and power losses in electrical and mechanical plant, equipment and buildings, identification of losses energy audits load forecasting and control.

Co-requisites: EET500, MET250 Credit Points: 6 Contact Hours: 3 per week

MET901 SUGAR MILL TECHNOLOGY I

Offered: Autumn

This subject provides the basic knowledge and skills in the technology and equipment associated with sugar mill processes and operation.

Credit Points: 6 Contact Hours: 3 per week

MET902 SUGAR MILL TECHNOLOGY II

Offered: Spring

This subject provides further knowledge and skills in the technology and equipment associated with sugar mill processes and operation.

Prerequisite: MET901

Credit Points: 7 Contact Hours: 3 per week

MET920 COMPUTER AIDED DESIGN & DRAFTING

Offered: Autumn

The use of computer based systems for producing engineering drawings with emphasis on practical work. **Prerequisites:** MET120, MET220 Cradit Pointer 6 — Context Hours: 3 per work

Credit Points: 6 Contact Hours: 3 per week

MET933 INDUSTRIAL TRIBOLOGY

Offered: Autumn

Maintenance and maintenance systems, types and mechanisms of wear, bearings and scals, friction, lubricants, oils, greases, solid lubricants, gas as a lubricant, application of lubricants.

Credit Points: 6 Contact Hours: 3 per week

MET940 MECHANICAL MEASUREMENTS

Offered: Autumn

To describe the function and method of application of the instruments used to measure mechanical quantities such as: speed, acceleration, frequency, force, torque, pressure, level, flow and temperature.

Credit Points: 8 Contact Hours: 3 per week

MET960 FLUID POWER

Offered: Spring

This subject analyses selected fluid systems to show how the performance characteristics of individual components interact to affect the overall efficiency. Credit Points: 7 Contact Hours: 3 per weck

MET961 FLUID MECHANICS

Offered: Spring

An introduction to fluid mechanics and systems such as pumps and pumping, turbines, compressors and fans. The operation of fluid coupling and torque convertors.

Prerequisite: MET560

Credit Points: 7 Contact Hours: 3 per week



MET971 INDUSTRIAL PRACTICE Offered: Spring

A series of lectures in human resource management. Aspects of communication, leadership and teamwork with practical applications to planning and control. Basic engincering metrology.

Credit Points: 7 Contact Hours: 3 per week

MNB002 PSYCHOLOGY FOR ENGINEERS Offered: Spring

Introductory psychology. Basic elements of transactional analysis and their application to work settings. Selfconcept and its relationship to socially effective behaviour. Attitudes and attitude change. The dynamics of supervision in the work place.

Credit Points: 4 Contact Hours: 2 per week

MNB004 MANAGEMENT

Offered: Spring

The subject acts as an introduction to the theory and practice of management and lays a foundation on which to build managerial knowledge and techniques through a life time career. Functions of management: planning, organising, leading and controlling are presented in the framework of a systems approach to decision making.

Credit Points: 4 Contact Hours: 2 per week

MNB007 BEHAVIOURAL SCIENCE

An introduction to perception, motivation, individual personality, social attitudes, group interaction and dynamics; social motives and the sources and resolution of conflict. Students will be introduced to the practical application and limitations of behavioural studies through the use of readings and case studies drawn from the building industry. An introduction to the job and responsibilities of management; the functions and role of the manager including planning, organisation, control, budgeting and decision making; styles of leadership. Students will discuss and assess the various leadership styles and their application in the building industry, together with an assessment of the decision making roles of the contractor, architect, unions, government and owner on the building site. Students will be introduced to employee selection training, appraising and promotion. Worker efficiency and working conditions.

Credit Points: 6 Contact Hours: 3 per week

MNB018 INDUSTRIAL RELATIONS

Structure and development of the industrial relations system in Australia. Federal and State conciliation and arbitration systems, authority and extent of jurisdiction. Industrial relations issues such as wages, conditions, claims and disputes. Role of the trade unions, the employers' and employees' representatives, the commission, awards and agreements. Acts, regulations and workers' compensation. Law of Master and Servant, Strikes and Lockouts, Public liability insurance. Law of Professional Negligence, Credit Points: 4 Contact Hours: 3 per week

MNB025 ECONOMIC ANALYSIS FOR GEOLOGISTS

Topics include a general overview of the economic approach and method. Importance of statistics, theory and practice in Economics. Neo-classical economics: Relevance to Australia and other western nations. The macro, micro distinction, comparative systems, and the role of values. Development models; Kaldor, Myint, Robinson, Graffa and mineral economics. Credit Points: 6 Contact Hours: 3 per week

MNB026 ADMINISTRATION FOR GEOLOGISTS

The subject aims to introduce geology students to management practices and principles. It covers the managerial functions of planning, controlling, organising, directing, and staffing, as well as the management of change and conflict. Also included are the areas of business planning for new ventures, budgets and financial controls, and time management. Credit Points: 6 Contact Hours: 3 per week

MNB040 MANAGEMENT 🛛

Offered: Spring

An introductory study of management including the functions of management, leadership, motivation and supervision of staff, and employee relations, Credit Points: 4 Contact Hours: 1 per week

MNB043 INDUSTRIAL MANAGEMENT

Offered: Spring

The management process planning, leading, organising, controlling. Human resources management aspects of communication, motivation, leadership and teamwork, with practical applications to planning and control, personnel relations, job design.

Credit Points: 6 Contact Hours: 3 per week

MNB067 PSYCHOLOGY

This subject seeks to education students to: critically evaluate statements about behaviour; state and give examples of higher order motives, and apply this knowledge to work and interpersonal situations; understand factors which cause us to misperceive others, and explain how to minimise misperceptions; use effective social skills in interpersonal and group settings; understand theories of attitude, change and know implications for changing the behaviour of others; use skills to reduce interpersonal stress.

Credit Points: 6 Contact Hours: 1 per week

MNB072 PRACTICE MANAGEMENT

The focus of the course is on Small Business Management. It considers the various roles that small business managers must develop at least rudimentary proficiency in. The structure, organisation, finance, planning, control, taxation, marketing, and environmental factors will be discussed in order to equip students with basic skills necessary for starting a successful small business.

Credit Points: 4 Contact Hours: 3 per week

MNB091 MARKETING

The course is designed to concentrate on breadth rather than depth, to provide an overall view of marketing. The areas pursued will be the definition of marketing including its fit into the strategic plans of a firm or institution, either profit or non profit; full explanation of the components of the Marketing Mix with emphasis on a systems approach. The components of the marketing mix are defined as price, promotion, product and distribution; the integration of the above elements with branding, packaging sales and sales promotion to create the Marketing Plan. Credit Points: 9 Contact Hours: 3 per week

MNB111 INTRODUCTORY PSYCHOLOGY FOR HEALTH PROFESSIONALS

Offered: Autumn

A course of lectures and tutorials on psychology as a science and interpersonal behaviour and skills. Credit Points: 4 Contact Hours: 2 per week



MNB120 ELEMENTARY JAPANESE

Introduction to a basic knowledge of the spoken Japanese language through models of dialogues based on situational conversation essential to business and travel. Additionally, it includes special lectures on cultural background studies which are related to business practices in Japan.

Credit Points: 12 Contact Hours: 3 per week

MNB121 COLLOQUIAL JAPANESE

Emphasises spoken and aural comprehension based on situational conversation related to Australian business-people, including study of hiragana/katakana (Japanese syllables reading and writing) and an introductory lesson of Kanji (Chinese characters).

Credit Points: 12 Contact Hours: 3 per week

MNB130 GENERAL PSYCHOLOGY

This course is designed to give students an ability to demonstrate effective interpersonal skills in relation to patients and other health professionals; indicate bases of individual differences; diagnose patient needs and respond appropriately; state causes of stress, effects on health, and indicate appropriate techniques to reduce stress; indicate techniques that may be used to modify patient attitudes.

Credit Points: 4 Contact Hours: 3 per week

MNB151 MICROECONOMIC ANALYSIS

This subject will examine how managers make decisions in firms in the Australian economy. The role of consumers and firms in various markets will be studied. Production and market strategies for managers in different types of firms will be examined. Lastly, constraints on manager's decisions and other contemporary issues in Australian micro economies will be examined.

Credit Points: 12 Contact Hours: 3 per week

MNB152 COMPUTER DATA ANALYSIS

This subject introduces students to the "stand alone" microcomputer in the first six weeks and to the mainframe computer system in the latter half of the course. The microcomputer will be used to teach spreadsheet, database, graphics and report generation involving population data and will also be used to teach Word Processing. Wordprocessing skills will be taught using Word Perfect. In the second half of the course students will be taught how to conduct surveys, the principles of sampling design, how to analyse survey sample data using a compatible package, as well as the theoretical measures of statistics involving central tendency, dispersion, probability and probability distributions, the central limit theorem and confidence intervals. Optimal sample size will also be discussed.

Credit Points: 12 Contact Hours: 3 per week

MNB153 ANALYSIS & METHODOLOGY IN MANAGEMENT

The first part of the course is designed to establish a conceptual base suitable for the analysis of both abstract and empirical argument. The second part of the course builds upon the concept of a valid argument by introducing the notion of the empirical research process, both historical and scientific. Specifically, the research cycle of problem definition, research design, data collection, analysis and reporting will be introduced. Normal empirical research will be concentrated upon, though in the context of a discussion of a wide range of research processes. Primary and secondary data sources will be considered, with case studies utilising archival material, market research and questionnaire design to provide practical anchoring. A final project which requires the construction of an argument and integration of data will be introduced to help integrate the analytical and empirical material, and demonstrate the student's ability to communicate meaning in an appropriate fashion. This may draw on introductory statistics and computing subjects. **Credit Points:** 12 **Contact Hours:** 3 per week

MNB154 PSYCHOLOGY

Offered: Autumn, Spring

An introduction to selected areas of psychology to give a behavioural base to subsequent studies in the management and organisational science area and to provide limited skills training in some areas for personal development. A learning unit investigates conditioning, imitation and higher order learning. A second unit on individuals and groups examines the development and assessment of individuals within groups. Other units examine perception human development and social skills, including assertiveness and stress management.

Credit Points: 12 Contact Hours: 3 per week

MNB181 AUSTRALIAN NATIONAL GOVERNMENT B

This subject provides an introduction to the Australian political system at the national level. It aims to foster an understanding of the major participants in the system and to evaluate their interaction with Australian society. The Australian Constitution, the Commonwealth Parliament, the Cabinet, Ministry and Public Service, the High Court, the electoral system, political parties and interest groups are examined and related to basic political theory and current political issues. The role of the State Governments is also considered.

Credit Points: 12 Contact Hours: 3 per week

MNB183 AUSTRALIAN NATIONAL GOVERNMENT A

This subject provides an introduction to the Australian political system at the national level. It aims to foster an understanding of the major participants in the system and to evaluate their interaction with Australian society. The Australian Constitution, the Commonwealth Parliament, the Cabinet, Ministry and Public Service, the High Court, the electoral system, political parties, and interest groups are examined and related to basic political theory and current political issues.

Note: One hour per week is set aside for Communication Department input.

Credit Points: 12 Contact Hours: 3 per week

MNB184 INTRODUCTION TO ADMINISTRATIVE & POLITICAL ANALYSIS

The aim of the subject is to ensure the student develops a basic understanding of the aims and methods of the social sciences. It is also intended to help the student develop an understanding of what constitutes a valid explanation of social phenomena that can be utilised in other subjects. It will help develop habits of thought that can be applied to a wide variety of problems and decisions.

Credit Points: 12 Contact Hours: 3 per week

MNB203 MANAGEMENT II (TO BE OFFERED AUTUMN SEMESTER 1990 FOR THE FINAL TIME)

An extension of MNB103, this subject covers: effective delegation, organisational centralisation and



decentralisation, the informal organisation using committees effectively, practical guidelines to motivation and job design, effective leadership, managing change; building effective management control systems, techniques in controlling, human reactions to controlling, wasteful organisational practices and management audits.

Prerequisite: MNB103

Credit Points: 12 Contact Hours: 3 per week

MNB231 GOVERNMENT ECONOMIC POLICY

This subject is designed to examine some of the problems in the economics of government social policy. Social policy will be analysed in terms of its impact on the allocation of resources and the distribution of income and wealth. The theory of public sector economics will not be studied since the subject Microeconomic Policy covers this area. The latter is a recommended but not a necessary prerequisite for MNB231. However, the theory of taxation, fiscal federalism and the significance of the size and growth of the public sector will be studied. The application of economic analysis in a number of areas of social policy including health and medical care, social security, education, environmental protection and housing will be demonstrated.

Prerequisite: MNB151, or MNB471

Credit Points: 12 Contact Hours: 3 per week

MNB250 DEVELOPMENT AL PSYCHOLOGY

Offered: Autumn

This subject provides students with a basis for the study of the promotion of psychological health of individuals at differing developmental stages. The content includes psychological adjustment, developmental theories, developmental aspects of childhood, adolescence, middle and old age and specific areas such as sexual development, death and dying,

Prerequisite: MNB101

Credit Points: 9 Contact Hours: 3 per week

MNB251 MACROECONOMIC ANALYSIS

Macroeconomic Analysis is concerned with the economic problems that occur at the national level. The aim of the subject is to ensure that students understand the economic problems at this level and appreciate the effects on the business community and on individuals of the Federal Government's attempts to manage these problems in Australia. Specific topics covered in the subject include economic systems, management techniques associated with a capitalist economy, unemployment, inflation - its causes and effects, and international trade.

Credit Points: 12 Contact Hours: 3 per week

MNB252 BUSINESS STATISTICS

The primary emphasis is on the concepts and applications of basic statistical methods to business subjects such as accounting, economics, management and marketing. The course is mainly concerned with statistical inference. A set of data based upon the results of a survey serves as a centrepoint for part of the course, and a means of integrating some of the topics discussed. Users unskilled in statistics may instruct the computer to perform an inappropriate or invalid analysis, or they may be unable to properly interpret the results of the requested analysis. This subject also requires in-depth application of a computer package introduced in Computer Data Analysis. Prerequisite: MNB152 or CSB191

Credit Points: 12 Contact Hours: 3 per week

MNB253 INTRODUCTORY MARKETING

This introductory subject focuses on the role of marketing and its importance in contemporary organisations. The subject material covers the key marketing decision areas including the marketing concept; understanding consumer behaviour and preferences; marketing research and marketing information systems; market segmentation and positioning; and an introduction to marketing planning, strategy and control. Emphasis is given to understanding the components of the marketing mix, viz. product planning, management and development; pricing methods and strategies; the elements of promotion, including personal selling, advertising, publicity and sales promotion; and distribution. Credit Points: 12 Contact Hours: 3 per week

MNB254 PERSONNEL MANAGEMENT & INDUSTRIAL RELATIONS

This subject is about the way human resources act and are acted upon. It examines human resources from the points of view of the employer, employees, govenment and other stakeholders. It utilises the pipeline concept to introduce some of the key processes of personnel management. It examines a variety of theoretical perspectives on industrial relations, introduces industrial relations concepts appropriate to middle managers, supervisors, and employee representatives, to enable students to understand the interpersonal and communication skills appropriate to . the area. Current issues are highlighted throughout and students are introduced to the basic framework of Australian industrial law.

Credit Points: 12 Contact Hours: 3 per week

🔟 MNB267 PSYCHOLOGY

In studying this subject, students will be taught to critically evaluate statements about behaviour; state and give examples of higher order motives, and apply this knowledge to work and interpersonal situations; understand factors which cause us to misperceive others, and explain how to minimise misperceptions; use effective social skills in interpersonal and group settings; understand theories of attitude, change and know implications for changing the attitudes of other persons; know theories of behaviour change and understand implications for changing the behaviour of others; use skills to reduce interpersonal stress. Credit Points: 4 Contact Hours: 3 per week

MNB281 POLITICAL BEHAVIOUR

The aim of this course is to provide students with an understanding of the causes and significance of political behaviour in Australia. The course is structured around two related perspectives, that of political behaviour at the individual level, and political behaviour as a feature of collective political activity. The course examines the major perspectives used to explain political behaviour in Australia, relating these both singly and together to specific examples of political activity. Finally, the implication of these explanations for patterns of political power is examined. Prerequisite/Co-requisite: MNB183 or MNB181

Credit Points: 12 Contact Hours: 3 per week

MNB282 STATE GOVERNMENT

This subject aims to provide an analytical scrutiny of Australian state government with attention concentrated on Queensland. The interaction of parties, groups and institutions is highlighted. The course attempts to identify the outstanding demographic, economic, social and political features of the states and the dominant themes of political life therein. It



looks at the political parties, at elections, electoral and voting systems, at pressure groups and the press. It investigates the workings of state parliaments and cabinets. Finally it has something to say about state government administration, about functions and financing and about intergovernmental relations. Prerequisite: MNB451 or MNB181/183

Credit Points: 12 Contact Hours: 3 per week

MNB319 MEDICAL RECORD ADMINISTRATION I

An introduction to the principles of record management and their application in medical record departments. The subject will present an overview of the inter-relationships between the various processes of the medical record department and functionally related areas in health care facilities. Topics include the structure, format and uses of medical records, the function of medical record departments, quantitative analysis of medical records, and health information collection and retrieval systems, both manual and computerised.

Credit Points: 12 Contact Hours: 3 per week

MNB320 MEDICAL TERMINOLOGY

This subject is designed to enable the student to understand, define, spell and pronounce terms related to the diseases and systems of the body, the activities of health professionals and medical technology. A thorough knowledge of medical terminology is necessary for medical record administrators and health administrators to communicate effectively with other health care professionals and contribute to health care planning, evaluation and research studies.

Credit Points: 12 Contact Hours: 3 per week

MNB322 INTRODUCTORY TRAINING TECHNIQUES

Training in Australia. Instructional models and theories of learning. Training needs analysis, task analysis process. Basic training techniques - the information giving model, the skill development model, the discussion model. Training aids/audio-visuals, algorithms. Administering a training course. Evaluating learning - writing and scoring test items. Follow-up training.

Prerequisite: The completion of the equivalent of the first year of the course in which the student is enrolled or MNN100.

Credit Points: 12 Contact Hours: 3 per week

MNB323 SOCIAL PSYCHOLOGY

The focus is upon issues and problems which arise when people interact with each other. Students are expected to master social psychological theories, principles and concepts in order to assist them to describe, explain, predict and influence interpersonal behaviours in both their work and their personal life. **Prerequisite:** MNB154 or MNB412 or MNN100 **Credit Points:** 12 **Contact Hours: 3** per week

MNB330 AUSTRALIAN HEALTH INDUSTRY

A broad overview of the systems of health care in Australia and their methods of operation. The public and private health and medical care sectors are discussed. The political environment, health care institutions, community health, public health, and the problems of co-ordination and integration of health services are also studied. Students are introduced to the role of the Health Services Administrator. Credit Points: 12 Contact Hours: 3 per week MNB331 HEALTH CARE ECONOMICS I

This subject applies economic analysis to the health care industry. It includes an examination of the demand for health care, the supply of health care, and the market for health care.

Prerequisite: MNB151

Credit Points: 12 Contact Hours: 3 per week

MNB351 ORGANISATIONAL ANALYSIS & MANAGEMENT

This subject is designed to explain how modern organisations operate and their import for the study and practice of management. It focuses on two key areas - analysis and understanding of organisational theory and social processes in organisations. In this context the specific skills held to be valuable to managers will be identified and discussed. The major processes will be examined, with a focus on decision and communication processes.

Prerequisite: MNB153

Credit Points: 12 Contact Hours: 3 per week

MNB361 HUMAN RESOURCES & THE ORGANISATION

This foundation subject examines the interface of human resources with the organisation and its requirements. Concepts and processes for analysing jobs will be examined. Human resources planning, job evaluation, job design and performance appraisal concepts and processes will be built on the foundation data. A substantial level of analytical and professional competence is expected in this subject.

Prerequisite: MNB254 or MNN100

Credit Points: 12 Contact Hours: 3 per week

MNB362 RECRUITMENT & SELECTION

This is a practical subject with strong conceptual and research foundations. It builds on job analysis competencies to deal in depth with recruitment and selection. Major topics include use of advertising, private agencies, the Commonwealth Employment Services and other approaches in recruiting; the use of aptitude and ability tests for selection; screening devices (for example, the weighted application blank); practical selection interviewing; other issues in recruitment and selection. Where appropriate, attention is given to underlying statistical methods (for example, in the estimation of reliability and validity). Legal requirements are emphasised throughout (e.g., anti-discrimination, EEO).

Co-requisite: MNB361

Credit Points: 12 Contact Hours: 3 per week

MNB363 INDUSTRIAL RELATIONS I

This subject aims to provide students with an understanding of the principles and practices of industrial relations in Australia. While considerable help is given by the lecturer in the form of lectures and seminar discussion, this subject should appeal to students who appreciate conducting their own individual research. A comprehensive, annotated bibliography is provided and students must use this as the resource base for their own study of the subject. Particular references to the bibliography are noted under the lecture topics.

Prerequisite: 96 credit points successfully completed from Faculty of Business Degree Program, including MNB254

Credit Points: 12 Contact Hours: 3 per week



MNB364 PERSONNEL ADMINISTRATIVE SYSTEMS/OCCUPATIONAL HEALTH & SAFETY

Introduction to human resources information systems. An examination of entitlements systems, discipline systems, remuneration packages, workers compensation coverage. Award and legal requirements. Computerised systems. Occupational health and safety requirements under the law. Work conditions and employee behaviour. Managing occupational health and safety.

Prerequisite: MNB254 or MNN100 or the completion of the equivalent of the first year of the course in which the student is enrolled

Credit Points: 12 Contact Hours: 3 per week

MNB371 MICROECONOMIC THEORY

Objectives of the firm and decision making under uncertainty; demand theory analysis and estimation; production and cost analysis; pricing analysis and decision; selected topics e.g., economics of advertising, product quality and capital budgeting.

Prerequisite: MNB151

Credit Points: 12 Contact Hours: 3 per week

MNB372 MACROECONOMIC THEORY

Keynesian, monetarist and neoclassical theories of income determination will be studied and evaluated. This will involve analysis of the role of both demand and supply side factors. Comparative monetary theory and expectations theories will also be addressed. **Prerequisite:** MNB251

Credit Points: 12 Contact Hours: 3 per week

MNB382 ADMINISTRATION RESEARCH I

This subject introduces the student who will work in the public sector to methods used to collect, process and analyse information. The emphasis is on practicable procedures rather than mathematical derivation, although an intuitive understanding of basic statistical principles is presented. Among the topics covered are sources of Australian statistical information, how to conduct surveys, the use of statistics to analyse survey results, computer use in survey work, scaling methods, probability theory, time series, confidence intervals, demographic and financial processes. Emphasis will be on S.P.S.S. Computer work on the DEC-10 as well as on certain packages on the HP-3000.

Credit Points: 12 Contact Hours: 3 per week

MNB385 ADMINISTRATIVE THEORY

Public administration is eclectic, drawing upon a wide range of theory and related concepts. The aim of this subject is to ensure students gain a critical understanding of such theory, utilising the analytical frameworks developed in Introduction to Administrative & Political Analysis. The understanding developed will be applied in the examination of administrative systems and their problems in a range of subjects, notably Public Policy Process I & II.

Prerequisite: CMB111, MNB184

Credit Points: 12 Contact Hours: 4 per week

MNB391 MARKETING MANAGEMENT

This subject is concerned with the tactical decisions required at the product or middle management level. Particular emphasis will be placed upon new product and services innovations with an introduction to the development of strategy in terms of defining marketing opportunities, developing and implementing marketing plans. There will be a specific focus on market segmentation, positioning, measuring market opportunity, marketing communications, the promotional mix, distribution, price determination together with retail/wholesale, service marketing and not-forprofit marketing as applied in the strategy developing process.

Prerequisite: MNB253 or MNN204 Credit Points: 12 Contact Hours: 3 per week

MNB392 CONSUMER BEHAVIOUR

This course examines the various theories of consumer behaviour and is designed to provide students with an insight into consumer needs, attitudes and behaviour and their impact on all aspects of marketing strategy. **Prercquisite:** MNB253 or MNN204

Credit Points: 12 Contact Hours: 3 per week

MNB405 MANAGEMENT SCIENCE A

The major behavioural objectives are to introduce students to important models of operations research; students are made aware of how these models are used in accounting and/or management decision-making situations; students become familiar with solving decision problems through their own calculations and the use of a computer; students will have an appreciation of the strengths and weaknesses of the models. **Credit Points:** 9 **Contact Hours:** 3 per week

MNB411 EXPORT MANAGEMENT

The role of government, including need to export, and export incentives; methods of exporting, including agents and merchants, consultants and overseas organisations; bases for export sales, including terminology and exporter's responsibilities; export documentation; finance of export trade, including methods of payment, finance for export transactions and foreign exchange transactions; export finance insurance corporation; modes of international transport; marine insurance; quoting for export, including pricing policies, export costs, marketing and packaging and quotations. A major case study is included as part of the study program.

Prerequisite: First year of BBus(Mgt) program Credit Points: 12 Contact Hours: 3 per week

MNB413 APPLIED COGNITIVE PSYCHOLOGY

Offered: Spring

Introduction to cognitive psychology; perception processes in cognition; memory processes in cognition; thinking processes in cognition; includes problem solving and decision making; application of cognitive psychology. Artificial intelligence, ergonomics and job design also included.

Credit Points: 9 Contact Hours: 3 per week

MNB419 MEDICAL RECORD ADMINISTRATION II

This subject is designed to provide the student with an understanding of specialised medical and health record systems and techniques, particularly data capture techniques and models. The students will study clinical classification principles and systems used in the retrieval of health information for research, evaluation, planning and statistical collection in the health services.

Prerequisites: MNB319 and MNB320 Credit Points: 12 Contact Hours: 3 per week

MNB420 ADVANCED TRAINING TECHNIQUES

Planning and programming management and supervisory development. Career planning. Developing a complete training program. Advanced training techniques - case study, role play, laboratory training, simulations, games, programmed instruction, computer assisted instruction, individualised learning, video and learning. Managing the training and development function - planning, organising staffing, directing, controlling. The competencies of a trainer. Experiential and project activities.

Prerequisite: MNB322

Credit Points: 12 Contact Hours: 3 per week

MNB426 SALES MANAGEMENT

This subject introduces the student to the range of analytical activities performed in the design and management of the selling function of the organisation. These activities include sales forecasting, sales force size, territory management and selling logistics, sales force motivation, sales negotiation and so on. The subject combines theory and practice and uses a case study approach to consolidate the learning process.

Prerequisite: MNB253 or MNN204

Credit Points: 12 Contact Hours: 3 per week

MNB430 APPLIED HEALTH CARE ANALYSIS

This subject is an introduction to epidemiology and biostatistics. Descriptive and analytical epidemiological methods used in the study of acute and chronic disease and in health services planning are studied. The statistical techniques appropriate to public health problems are included at an introductory level.

Prerequisite: MNB382

Credit Points: 12 Contact Hours: 3 per week

MNB431 HEALTH CARE ECONOMICS II

The objective of this course is to follow up and continue the study of economics as applied to health care. Advanced level studies in health economics are critically examined.

Prerequisite: MNB331

Credit Points: 12 Contact Hours: 3 per week

MNB432 BUSINESS STRATEGY

Managers make decisions within a macroeconomic environment. The major objective of this subject is to provide students with sufficient knowledge of the current state of economic theory and policy to enable them to understand macroeconomic arguments as they are presented in the wider economic environment and in the media. The subject gives particular emphasis to competing views about the nature of the contemporary economy and about the causes of, and practical solutions for, its current problems. **Prerequisite:** MNB251

Credit Points: 12 Contact Hours: 3 per week

MNB450 PHYSIOLOGICAL & HEALTH PSYCHOLOGY

Offered: Spring

This subject examines the physiological and cognitive bases to human behaviour. In particular, it gives attention to such areas as the nervous and endocrine systems of the body, the brain and its functioning; learning, information processing, memory and problem solving; consciousness and altered states of consciousness; hormones and drugs and their effects on emotional expression; the development of intelligence; and overall the relation of physiological and cognitive factors to motivation and behaviour. **Prerequisite:** MNB 101

Credit Points: 12 Contact Hours: 3 per week

MNB451 GOVERNMENT, BUSINESS & LAW

The purpose of this subject is to provide a basic understanding of government, business and the law. It will stress that politics is an all-pervasive aspect of human societies, though its semantic definition varies from culture to culture. This will be illustrated by demonstrating the important senses in which management is a political activity. It will then examine the specialised governmental and legal institutions and processes, the extent to which they structure the frameworks within which business takes place, and feedback from business into the political system. The subject will then use a series of case studies to illustrate and analyse selected business-government relationships.

Credit Pnints: 12 Contact Hours: 4 per week Note: This subject is not available to students who have taken MNB181 or MNB183, Australian National Government A or B, or MNN203 Government Business Relations.

MNB461 FOUNDATION HR COMPETENCIES

This subject analyses and develops the personal and interpersonal competencies (in both cognitive and affective domains) which form the foundations from which a HR practitioner must operate. It aims to develop knowledge of and skills in self-awareness, personal and interpersonal development and interpersonal processes. It emphasises the design of process to achieve outcomes.

Prerequisite: MNB154 or MNN100

Credit Points: 12 Contact Hours: 3 per week

MNB462 ADVANCED ORGANISATION BEHAVIOUR

An in-depth study of organisational behaviour. Major organisational aspects (the individual, groups, technology, formal organisation structure) are considered and integrated into a comprehensive analysis of the factors affecting behaviour in the organisation, with the emphasis on practical application. Particular attention is given to methods of research into motivation, leadership and structure in the organisational context. The emphasis throughout is on rigorous analysis and evaluation.

Prerequisite: MNB154

Credit Points: 12 Contact Hours: 3 per week

MNB463 ORGANISATION DEVELOPMENT

The subject has two major objectives. The first is to develop conceptual and theoretical models and skills in relation to the general process of introducing change into organisations, and the specific techniques/interventions which are most often used in organisation development. The second is to develop practical skills wherever possible in relation to the introduction of change; in particular, skills related to the specific interventions/techniques used in organisational development, and diagnostic and analytical skills useful for organisation development. Special attention is focused on the work group and its processes as a key structural unit in organisational change.

Prercquisite: MNB461 or MNN100

Credit Points: 12 Contact Hours: 3 per week

MNB471 MICROECONOMIC POLICY

Introduction to welfare economics. Public utility pricing and investment. Market efficiency and adjustment. Tariff policy. Externalities and public goods. Cost benefit analysis. Case studies of Australian industries (e.g., air transport). Prerequisite: MNB371 or MNB331 or MNN106 Credit Points: 12 Contact Hours: 3 per week



MNB472 MACROECONOMIC POLICY

Monetary and fiscal policies based on various theoretical underpinnings will be discussed. In particular, the role of discretionary-monetary policy will be addressed; as will government expenditure and taxation, the size of the budget deficit/surplus, and the management of an open economy (e.g., Australia). **Prerequisite:** MNB372

Credit Points: 12 Contact Hours: 3 per week

MNB482 LOCAL GOVERNMENT

This subject examines the vital role of local government as the third sphere of government in Australia. Its nature and constitution, functions, finance and the role of professional employees are some of the topics examined in the context of questioning local governments' capacity to effectively and efficiently provide services, and to develop as a participative grass root democratic system. The emphasis is on local government in Queensland, but interstate and overseas examples are included with particular emphasis on the UK since the Redcliffe Maud and Bains Reports and recent reforms.

NB: For students enrolled in the Public Administration degree only, this subject includes a one hour per week communication component (4 hour subject). Prerequisite: MNB181/183

Credit Points: 12 Contact Hours: 4 per week

MNB483 ADMINISTRATION ANALYSIS

This subject introduces students in public sector administration to the interpretation and use of statistical information. The subject covers the most commonly used techniques of handling data, with an emphasis on the purpose of each technique rather than on its mechanics. As well as being proficient for general administration, students who pass this subject will be trained for junior and middle-level research positions. An important part of this subject is the research project each student will do in a field he/she is interested in (for example, health administration, economics, local government) using the techniques taught. Among the topics covered are: hypothesis testing, regression and correlation, multiple regression, forecasting, time series index numbers, and an application of statistical techniques to survey analysis. Students will use the HP-3000 Computer and the DEC-10 system with particular emphasis on S.P.S.S.

Prerequisite: MNB382

Credit Points: 12 Contact Hours: 3 per week

MNB484 PUBLIC PERSONNEL MANAGEMENT

To provide the student with an understanding of the principles and practices which surround personnel management in the public sector. The focus on public sector personnel management is important since there exists a body of law, rules and regulations at each level of government which affects the performance of each personnel activity-human resource planning, job analysis, recruitment, selection performance evaluation, promotion and training. This subject addresses three factors basic to the field of personnel management: the importance of the law; the perspective of the individual employee; and the function of public personnel activities in defining public policy.

Prerequisite/Co-requisite: MNB385 Credit Points: 12 Contact Hours: 3 per week

MNB485 PUBLIC ENTERPRISE

Public enterprises occupy a central economic role in the Australian economy, at both federal and state levels. They also occupy a unique position astride the public and private sectors, and are subject to both the forces of the market and of the political system. This subject will examine the origins and development of this role, and the unique position of public enterprises in order to illustrate the demands upon the public enterprise manager.

Prerequisite: MNB451 or MNB181 and 8 subjects in either B. Business - Public Administration, or 8 subjects in BBus - Management.

Credit Points: 12 Contact Hours: 3 per week

MNB491 RETAILING MANAGEMENT 1

This subject provides a comprehensive introduction to the techniques, concepts and analytical issues that are involved in retailing management. The dynamics of the retail system are examined from a strategic marketing viewpoint and include a basic appreciation of retail customer behaviour and retail information needs. The analysis of store location and the evaluation of retail trade areas and store siting determinants are given detailed attention along with store layout and design. Elements of merchandising, franchising and promotion are also examined. The learning process is further extended by way of visits to local retail stores and shopping centres, and by project work covering the investigation of new retail business opportunities.

Prerequisite: MNB253 OR MNN204

Credit Points: 12 Contact Hours: 3 per week

MNB492 SERVICES MARKETING

This subject is concerned with the special characteristics of services and possible strategies to deal with those characteristics. Topics to be covered include the nature and classification of services; the differences between services and products and their implications for the marketing/customer mix and for marketing strategy; and the management of product support services. The following will also be introduced: the concept of productivity for services; including the management of demand and supply; and the search for service quality and consistency, including the issue of standardisation vs. customisation.

Prerequisite: MNB253 or MNN204

Credit Points: 12 Contact Hours: 3 per week

MNB503 THE TOURISM INDUSTRY IN AUSTRALIA

In recent years the tourism and hospitality sector has been the major growth sector in the Australian economy. The purpose of this subject is to undertake an economic, political and managerial analysis of this sector, its origins, growth and significance, with a particular focus on management needs relevant to the industry. The subject will draw upon the analytical methods and techniques developed in the degree to enable a multidisciplinary analysis of an applied nature.

Prerequisite: 12 subjects in BBus - Management Credit Points: 12 Contact Hours: 3 per week

MNB504 INTERNATIONAL POLITICS & BUSINESS

This subject will provide a basic outline of the contemporary, international political system, with a focus on Australia's major trading partners. It will examine the major actors in the system, and regional subsystems, with an emphasis on states, international organisations and multinational corporations. The linkages between domestic and foreign policies relevant to business will be examined, both as regards processes and policy content.

Prerequisite: MNB451 or MNB181 or 183 or MNN203 or MNN811

Credit Points: 12 Contact Hours: 3 per week



MNB505 HEALTH MANAGEMENT I 📓

A problem solving approach which relates the science of management to decision making and control in health services and administration. Management science (operations research) techniques are learned and applied in weekly case studies.

Prerequisite: 16 subjects in the B.Bus - Health Administration Degree.

Credit Points: 12 Contact Hours: 3 per week

MNB509 PUBLIC POLICY & BUSINESS

The policy process in government is generally more complex and encompasses a wider range of variables than is the case in the private business sector. Public enterprises are not exempt from these processes, which can and do have a crucial impact upon the enterprise's policies and operations. Thus, this subject aims to provide an understanding of public policy processes relevant to public enterprise managers, and to help develop a capacity for the analysis of policy content.

Prerequisite: MNB451, MNB686 or MNB208 Credit Points: 12 Contact Hours: 3 per week Note: This subject is not available to postgraduate students who have taken the subjects MNP508 Australian Policy Studies or MNN811 Policy Analysis, or to BBus - Public Administration students.

MNB515 INDEPENDENT STUDY UNIT INDUSTRIAL RELATIONS

This subject allows students to undertake a supervised research project in the industrial relations area. The topic must be chosen by the student with the approval of their supervisor. The project should entail the study of a significant topic in industrial relations and result in the production of a 7000 word assignment. Assessment will judge the student's ability to research and understand the literature surrounding the chosen field. In normal circumstances the student will also be expected to demonstrate an ability to collect some primary data, i.e., not rely totally on library research in the construction of the project.

Prerequisite: MNB363 or MNB630

Credit Points: 12 Contact Hours: 3 per week

MNB516 ORGANIZATIONAL SOCIOLOGY

The aim of the subject is to ensure that the student gains an understanding of organisations in the public sector. It builds upon the Introduction to Sociology and Theory and Administration subjects to provide a detailed understanding of organisation theory.

Prerequisite/Co-requisite: Eight subjects in the Bachelor of Business Degree including MNB385 Credit Points: 12 Contact Hours: 3 per week

MNB517 SPECIAL TOPIC IN INDUSTRIAL RELATIONS

According to student demand, a Special Topic in Industrial Relations will be offered. Enterprise level HRM/IR, and Comparative Industrial Relations are subjects that are likely to be offered as special topics at an early stage.

Prerequisite: Determined by arrangement with Coordinator

Credit Points: 12 Contact Hours: 3 per week

MNB518 HEALTH ADMINISTRATION PROJECT

This subject enables students to do follow-up work of a practical nature in an area of interest to them. Before being admitted to this subject, students will have completed all the required coursework in the discipline area of the proposed project. Projects may be undertaken in any of the discipline areas covered by the degree e.g., health economics, law, medical sociology, health finance, medical record administration, health management, statistics, epidemiology and architecture, either individually or in small groups. Projects must have prior approval and will be closely supervised. Being of a practical nature, projects will be undertaken in a health or medical care delivery setting e.g., hospital medical records department; group practice; local authority health department, State health department.

Credit Points: 12 Contact Hours: 3 per week

MNB519 MEDICAL RECORD ADMINISTRATION III

This subject is designed to enable the students to recognise and use effectively all types of classification systems utilised for the retrieval of medical information. It huilds on to student's experience from MNB419 by refining and enhancing their practical coding skills. It explores the use of coded data in case mix, particularly diagnosis related groups. The examination of specialised types of health records within hospitals, special purpose health record systems outside hospitals and systems for the registration and notification of disease is linked with the specialised classification systems developed to aid the retrieval of information from these various health information systems.

Prerequisite: MNB419

Credit Points: 12 Contact Hours: 3 per week

MNB523 INDEPENDENT STUDY HRD

This subject will enable students to demonstrate a competence at directing their own learning. This is essential for professionals who must subsequently keep themselves up-to-date in their area of expertise. To this end, students (either individually or in small groups) will, within an approved content area, undertake one or several learning activities with the approval of a supervisor. Appropriate activities could include literature review, research (mini-thesis), project, practicum (work placement) or anything else deemed acceptable by the supervisor.

Prerequisite: MNB361, MNB461, 2 HRD electives or MNN100

Credit Points: 12 Contact Hours: 3 per week

MNB524 RETAILING MANAGEMENT II

The basic objective of this subject is to provide students with both a strong conceptual and practical grounding in those retailing activities that comprise the merchandising function of the different types of retail stores including the distributors of durable consumer goods. This area of management attention and control is a basic and vital one for every retail institution from the large supermarket or department store to the smallest corner store. The course covers those topics associated with the merchandising of retail products: forecasting customer demand, planning, what, how and when to buy, pricing, store display and promotions, as well as the managerial control of buying and stocking merchandise.

Prerequisite: MNB493

Credif Points: 12 Contact Hours: 3 per week

MNB525 MARKETING DECISION MAKING

This subject is an advanced treatment of the theory and application of quantitative models in marketing. The various analytical models cover the evaluation of marketing policy and strategy, consumer and organisational buying behaviour, market segmentation and demand assessment, product, price, promotion,



distribution and selling decisions. These models lead to the study of an integrated decision support system for marketing management. Application to real-life examples is stressed throughout with case studies and experiential exercises providing the learning framework.

Prerequisite: MNB391 or MNN204, MNN202 Credit Points: 12 Contact Hours: 3 pcr week

MNB526 INTERNATIONAL MARKETING

This course endeavours to introduce the student to the nature and practice of international marketing. It assumes a familiarity with general marketing management and builds on this knowledge to develop insight into and understanding of the peculiar nature of international marketing management and the problems of marketing within a number of different national markets. The course is managerial in the sense that it focuses on the problems and decisions facing managers of international marketing in business enterprises.

Prerequisites: MNB253 or MNN204

Credit Points: 12 Coutact Hours: 3 per week

MNB527 TRANSPORT ECONOMICS

A study of the economics of the management of private and public transport operations. These operations will relate to passenger movement and general freight movement. Each operation will be examined in terms of consumer demands, cost, market structure, pricing and non-pricing strategy, regulation, handling and storage techniques.

Prerequisites: MNB371, MNN106

Credit Points: 12 Contact Hours: 3 per week

MNB528 PACIFIC RIM ECONOMIC RELATIONS

This subject defines Pacific Rim nations as including Australia, South-East Asia, China, Japan, Canada, the United States of America, Central and South America and New Zealand. It examines the evolution of economic relations between Australia and the other nations in the Pacific Rim category. Matters of trade, investment and migration are emphasised. An analysis of the impact of political, social and cultural variables on these relations is given a high priority. The subject also charts future changes in these relationships. In this way it seeks to contribute to the development of a strategic management perspective. **Prerequisite:** MNB372

Credit Pnints: 12 Contact Hours: 3 per week

MNB533 INTERNATIONAL HEALTH CARE SYSTEMS

The objective of this course is to make students aware of how different countries have organised their health delivery systems. The comparisons will be historical and economic. An analysis will be made of the growth of "the welfare state" in a number of countries e.g., United Kingdom, USA, Sweden, Canada, with particular reference to the organisation and delivery of health services. International organisations working in health will be studied. Students will be introduced to the distribution of diseases in both the West and the Third World; the distribution of health and material resources; international agencies; aid programs and their roles. Credit Points: 12 Contact Hours: 3 per week

MNB534 HEALTH SERVICES EVALUATION

This subject is a study of process evaluation, program evaluation and evaluation research with applications to the health fields. It is designed for health professionals in both the administration and practice areas. Theory, practice, the utilisation of evaluation results and the administration of evaluation studies are emphasised in this course. Specific problems such as criteria auditing, risk management, utilisation, review and accreditation are addressed.

Prerequisite: MNB543

Credit Points: 12 Contact Hours: 3 per week

💹 MNB543 HEALTH SERVICES PLANNING

This subject deals with the administrator's role in the planning and development of health care facilities and health services. It includes an examination of the reasons for planning, the concepts and principles of planning and the types and categories of planning applied to the health industry.

Prerequisites: MNB430, MNB330 or MNB533 Credit Points: 12 Contact Hours: 3 pcr week

MNB551 OPERATIONS MANAGEMENT

Operations Management is an advanced treatment of the management and control of organisational systems. The subject involves the functional analysis of short and medium-term operations using management science techniques. The medium-term analysis provides an operational link with strategic management decision making required in the following core subject Managerial Strategy. The subject provides a logical flow of learning from understanding and analysing an operation, work task or organisational activity; to managing raw materials, work-in-process and finished goods; through to layout analysis, job scheduling and operational planning.

Prerequisite: MNB351 or MNN202

Credit Points: 12 Contact Hours: 3 per week

MNB561 INDEPENDENT STUDY HRM

This subject enables students to demonstrate an ability to direct their own learning, a key competence for professionals who must subsequently keep themselves up-to-date in their area of expertise. To this end, students (either individually or in small groups) undertake one or several learning activities with the approval of a supervisor. Appropriate activities could include literature review, research (mini-thesis), project, practicum (work placement), and anything else deemed acceptable by the supervisor.

Prerequisite: MNB361, MNB461, 2 HRM electives or MNN100

Credit Points: 12 Contact Hours: 3 per week

MNB571 ADVANCED ECONOMIC THEORY & POLICY

Considers the foundations of economic thought and recent contributions to the literature of micro and macro theory and policy and their relevance for public and private decision making in the Australian context. **Prerequisite:** MNB372, MNB371 or one of these plus the other as a co-requisite.

Credit Points: 12 Contact Hours: 3 per week

MNB572 APPLIED ECONOMETRICS

Application of econometric techniques to economic models in micro and macroeconomics. The models will be used to explain or predict the behaviour of such economic variables as demand, production cost, interest rates, investment activity, and government activity.

Prerequisite: MNB252, MNB371, MNB372 or one of these plus the other as a co-requisite.

Credit Points: 12 Contact Hours: 3 per week



MNB582 FINANCIAL ADMINISTRATION

This subject aims at ensuring the student has an understanding of the nature of the systems of public financial administration in Australia, the major institutions and procedures involved, the incidence of public expenditure and its significance. Particular attention is paid to intergovernmental financial relations.

Prerequisite/Co-requisite: MNB181 or MNB183 Credit Points: 12 Contact Hours: 3 per week

MNB586 COMPARATIVE POLITICS

To widen student's knowledge and perspectives of political systems. A variety of liberal democratic, socialist and other types of states will be examined. The emphasis is upon comparative study, rather than a country by country examination of separate political systems.

Prerequisites: MNB183 or MNB181

Credit Points: 12 Contact Hours: 3 per week

MNB588 PUBLIC POLICY PROCESS I

Public enterprises at both State and federal levels pursue business functions as part of the institutions of government. They are subject to the public policy processes of government in a wide variety of ways, from financial targets to personnel and industrial relations policies. They are also important actors in the public policy process. Hence, it is essential for managers in public enterprises to understand the position they occupy in relation to such processes. The aim of this subject is to provide such an understanding, especially in relation to formulation and legitimation. **Prerequisites:** MNB451, MNB351 or MNB181, MNB385

Credit Points: 12 Contact Hours: 3 per week

MNB591 ECONOMICS OF INFORMATION

Information as a commodity; the demand for information; the economics of the production of information; the costs of information; the cost; pricing and charging out of information within organisations; the market supply of information; information technology and the supply curve; the structure of the information industry; information and industry concentration; public good characteristics of information; government intervention and economic impacts in the information industry.

Credit Points: 9 Contact Hours: 3 per week

MNB592 MARKETING RESEARCH

This subject has two main purposes, to look at the theoretical foundations behind both qualitative and quantitative marketing research, and to undertake a "hands on" marketing research project whereby small groups of students will be asked to liaise with the client; determine the most suitable way of gathering information; undertake the research; and finally, present the results. Topics to be covered in both the theoretical and practical areas of the subject include problem formulation; research design and sources of information; design and forms of data collection; sample design; analysis and interpretation of data, and the marketing research report and presentation.

Prerequisites: MNB391, MNB493 or MNN204, MNB391 or CMB211

Credit Points: 12 Contact Hours: 3 per week

MNB605 HEALTH MANAGEMENT II

Managing the hospital as a system; managerial information processing; the process of influence in the management of hospitals; managerial styles and the co-ordination and correlation of managerial expectations; hospital management in comparison with other managerial systems e.g., commerce, government. This subject continues the problem solving approach of Health Management I. It departs from the management of hospitals to include considerations of community health, mental health, and group practice management.

Prerequisite: MNB505

Credit Points: 12 Contact Hours: 3 per week

MNB611 SPECIAL TOPIC IN TOURISM

The aim of this subject is to permit an in-depth examination of an issue of importance to the industry. Hence, the actual content will vary, depending upon the issue under examination. Issues currently under consideration are the impact of special, or hallmark events upon the industry, drawing upon School of Management expertise in this area; the gaming industry, its value and impact; and government policy toward the industry, with a special focus upon State owned, tourist corporations. Each issue will be examined from a multi-disciplinary perspective, focused upon managerial considerations.

Prerequisite: MNB503

Credit Points: 12 Contact Hours: 3 per week

MANAGEMENT

As a small, relatively open economy, heavily dependent upon commodity exports, and with national policies firmly oriented toward an increase of exports, the need for an understanding of the complexities of transnational management have become greater. This subject is intended to provide a basic outline of management in the transnational context. It will draw upon earlier core subjects and their explanation of management roles to illustrate the manner in which those roles are influenced by the transnational context. The range of problems faced in such situations will be examined, as well as the institutional and procedural solutions adopted, their advantages and disadvantages. The focus will be upon the transnational environments faced in major and developing markets of concern for Australian businesses.

Prerequisite: MNB504 and 12 subjects in the BBus - Management program, or 8 subjects in the MBA program.

Credit Points: 12 Contact Hours: 3 per week

MNB613 GOVERNMENT POLICY & THE TOURISM INDUSTRY

The aim of this subject is to provide a detailed examination of government policy as it influences the tourism industry. It will include the examination of the policies of all levels of government and those international agreements of most significance to the industry, for example, those regarding air traffic rights. The specific governmental institutions and policy processes relevant to the industry will be examined, with a focus on the need to make effective use of the channels provided for access. The policies will be examined in their historical and contemporary context, concluding with an examination of current developments and their likely impact.

Prerequisite: MNB451 or MNB181 or MNB183 or MNN203 or MNN811

Credit Points: 12 Contact Hours: 3 per week

MNB618 HEALTH COMPUTER SYSTEMS

Principles and applications of electronic data processing in health care settings. Computerised health information systems are analysed from a variety of viewpoints including the objectives of the system, specific methods employed to meet user needs, struc-



ture in an overall information system, the technology which makes it operative, the data base, and the various ways information is transferred and used in health facilities.

Prerequisite: ISB 392

Credit Points: 12 Contact Hours: 3 per week

MNB619 MEDICAL RECORD ADMINISTRATION IV

This subject explores the role and functions of the medical record administrator in the management of health care services. Topics include the legal and ethical implications of health record management; extended care facilities and their special needs; occupational health and health records for industry; health records for community/primary care units; the potential of modern technology in the effective running of medical record services. The clinical classification component will concentrate on nostologic problem solving, collection strategies for disease and operation indexes and the practical application of classifications in health care settings. **Prerequisite:** MNB519

Credit Points: 12 Contact Hours: 3 per week

MNB624 PROMOTIONAL STRATEGY

This course introduces the student to concepts of promotional strategy. An overall appreciation will be discussed together with a detailed coverage of the management of the advertising functions including objectives of the promotional program, organising and managing the human resources, characteristics of advertising media (TV, radio, magazine etc.), strategy for selection of media vehicle, investigating advertising effectiveness and formulation of a 'promotional strategy' for a local film or institution. A proportion of the semester will be taken with a coverage of direct marketing and direct response advertising.

Prerequisite: MNB253 or MNN204

Credit Points: 12 Contact Hours: 3 per week

MNB625 PROFESSIONAL MARKETING PRACTICE

With the approval of the lecturer involved the students will undertake a preferred study program within the marketing framework, e.g., some particular area of the marketing mix. This study program will require students to undertake a project or 'internship' with a suitable company, where they will actively work on a part-time basis. The program will be aligned as closely as possible to the preferred area of study. Students will be required to submit a number of reports reflecting the theoretical concepts learned and the application to their job experience.

Prerequisite: MNB391, MNB493 or MNN204, MNB391

Credit Points: 12 Contact Hours: 3 per week MNB626 INTERNATIONAL ECONOMICS

The subject will concentrate on Australia's experience in international economics. Australia's reason for trade and direction of trade will be considered. Restriction on trade will be examined and debate will cover the Industries Assistance Commission and protection of Australian domestic producers. Appreciation, depreciation and external and internal balance in Australia will be discussed. Special attention will be paid to floating exchange rates and foreign exchange risk management under floating exchange rates; monetary policy and financial deregulation; Keynesian and monetarist theories of the balance of payments; the national debt; ASEAN.

Prerequisite: MNB372 or MNN106

Credit Points: 12 Contact Hours: 3 per week

MNB627 PROGRAM EVALUATION

The objective of the subject is to provide decision makers with a methodology for efficient project selection based on economic criteria. The use of cost benefit analysis, cost effectiveness analysis and program budgeting studies will be investigated. The development of such techniques will involve consideration of objectives, benefits, costs, prices, discount rates and investment rules. The application and limitations of such principles will be demonstrated by the use of case studies.

Prerequisite: MNB371 or MNB471 or MNN106 Credit Points: 12 Contact Hours: 3 per week

MNB630 INDUSTRIAL RELATIONS II

The aim of this subject is to equip students with a detailed knowledge of changes in the Australian community which will have an impact on industrial relationships over the next ten years. The subject aims to develop this understanding largely by means of individual student research into relevant topies.

While considerable assistance is given by the lecturer in the way of seminars, advice on research methods, and printed material, this subject should appeal particularly to students who appreciate conducting their own individual research.

Prerequisite: 96 credit points subjects successfully completed from Faculty of Business degree program including MNB254.

Credit Points: 12 Contact Hours: 3 per week

MNB633 DISTRIBUTION MANAGEMENT

Distribution Management deals with the application of the basic principles underlying the distribution of an organisation's products from their production or receipt to final delivery to a customer. Using a systems approach, the subject deals with such practice topics as warehouse location and management and choice of transportation modes. The subject is intended for students working in the marketing and transport/distribution fields but will also be valuable for those in other areas, e.g., business research, retailing, accounting.

Prerequisite: MNB391 or MNB371 or MNN204 or MNN106

Credit Points: 12 Contact Hours: 3 per week

MNB639 ECONOMICS OF STRATEGIC MANAGEMENT

This subject examines the internal structure, operation and growth of organisations with special reference to commercial institutions. A wide range of analytical tools is used to address major issues which include the determinants of the internal structure of organisations; the relative effectiveness of the institutions of market and hierarchy in reaching decisions; the determinants of vertical integration; the determinants of the growth and functioning of internal labour markets; the reasons for the development of firms as economic institutions; and the role of the entrepreneur in decision-making.

Prerequisite: MNB371 or MNN106

Credit Points: 12 Contact Hours: 3 per week Note: This subject is not available to students who have taken and passed MNN814.

MNB642 BUSINESS FORECASTING

A wide range of companies and government organisations use forecasting in such areas as sales, planning, marketing research, pricing, production planning and scheduling, financial planning, etc. This course has been designed to meet the need for more and better forecasting in an organisation, so that students with



limited training in mathematics and statistics can use forecasting techniques much more effectively. A system of programs called SIBYL/RUNNER will be used by the students. This system can be used equally well by both the novice and the forecasting expert. The authors of this system have maintained simplicity for the management user. Finally a number of case examples that provide exposure to the practical considerations involved in management forecasting problems will be presented.

Prerequisites: MNB252 or MNN307

Credit Points: 12 Contact Hours: 3 per week

MNB651 MANAGERIAL STRATEGY

The basic objective of the semester's work is to help the student to develop a personally useful and explicit way of thinking about the business enterprise as a total system in a total environment; to help to identify the crucial elements and relationships in a situation; analyse systematically and rigorously the basic opportunities, constraints and issues and trace out the impact of an action in any one part upon the other parts and upon the totality. It is the capstone subject in the BBus(Mgt) degree, and aims to integrate student's previous studies.

Prerequisites: MNB551 or MEB670 Credit Points: 12 Contact Hours: 3 per week

MNB661 INTER VIEWING & COUNSELLING

The unit aims to develop practical skills in aspects of employment interviewing through an introduction to the theory and principles of interviewing and through supervised experience. Attention will be given to the characteristics of the interview situation; the interviewer, the interviewee and their inter-relationships. Interview areas covered will include the personal interview (information seeking) and the employee-personnel interviews (recruitment, appraisal, disciplinary and exit). Personality theory, guidance and counselling theory and techniques will be introduced. An emphasis will be placed on understanding and practicing the human skills required to facilitate the development of others either in individual interaction or group interaction. Role plays, modelling, case-studies, peer and lecturer assessment and guidance may be used towards developing practical skills.

Prerequisites: MNB154, MNB461 or the completion of the equivalent of the first year of the course in which the student is enrolled or MNN100.

Credit Points: 12 Contact Hours: 3 per week

MNB666 COUNSELLING FOR HEALTH PROFESSIONALS

Offered: Spring

A study of the psychology of illness and the counselling process.

Credit Points: 4 Contact Hours: 2 per week

MNB683 COMPARATIVE ADMINISTRATION

This subject widens the student's perspectives by examining administrative structures and their functioning in a variety of systems. Students should realise that we in Australia do not have a monopoly on administrative wisdom, and that other systems may be just as effective in their particular environments. Liberal-democratic and totalitarian regimes will be examined with countries chosen to represent unitary systems, federal systems and developing and third world systems. For each country included in the final selection, bureaucratic structure and functions will be examined together with personnel practices, major reforms and committees of inquiry.

Prerequisites/Co-requisites: MNB484, MNB586 Credit Points: 12 Contact Hours: 3 per week

MNB686 GOVERNMENT & BUSINESS

To develop an understanding of the relationships between business and government in Australia in historical and contemporary perspective. The subject will build upon the base provided in MNB451, providing a detailed examination of the historical and contemporary context of government business relationships in Australia at federal and State levels. It will provide the detailed understanding for the subject MNB509.

Prerequisites: MNB451 or MNB181

Credit Points: 12 Contact Hours: 3 per week

MNB687 PUBLIC POLICY PROCESS II

Public enterprises at both State and federal levels pursue business functions as part of the institutions of government. They are subject to the public policy processes of government in a wide variety of ways, from financial targets to personnel and industrial relations policies. They are also important actors in the public policy process. Hence, it is essential for managers in public enterprises to understand the position they occupy in relation to such processes. The aim of this subject is to provide such an understanding, especially in relation to policy implementation and evaluation. It completes the examination of the public policy process continenced in MNB588. **Prerequisite:** MNB588

Credit Points: 12 Contact Hours: 3 per week

MNB691 STRATEGIC MARKETING

This course is designed to develop a specific understanding of marketing strategies with an in depth consideration of selected areas of decision-making. The course will also cover current and future dimensions of marketing. Students will be exposed to a variety of advanced marketing techniques and issues through lectures, seminars and case analyses. **Prerequisite:** MNB592 or MNN204, MNB391 **Credit Points:** 12 **Contact Hours:** 3 per week

MNB998 SPECIAL TOPIC IN PUBLIC ADMINISTRATION

The aim of this subject is to help the student apply in detail the modes of analysis developed in the core subjects to specific policy areas. In this way their immediate relevance can be demonstrated and a thorough understanding of a policy area gained. Prerequisite/Co-requisite: MNB588, MNB251 Credit Points; 12 Contact Hours: 3 per week

MND011 PSYCHOLOGY I

The main objectives of this subject are: Students can explain concepts in the areas of social perception, transactional analysis and motivation, and give examples of these in their own and client behaviour; students can facilitate an interpersonal interaction using skills of transactional analysis and helping; students recognise difficulties in interaction and choose appropriate skills to overcome some difficulties. Credit Points; 6 Contact Hours: 3 per week

MND033 PSYCHOLOGY II

This subject seeks to enable students to outline assumptions of stage and learning theory approaches to understanding development; outline the following theories of development- Piaget, Erikson, social learning theory; state main research findings for each



of the following stages of the life cycle (childhood, adolescence, young adulthood, middle age, ageing); distinguish between normal and abnormal adjustment, and explain issues regarding the definition of "normal" behaviour; recognise when referral for specialised help is required; state types of programs available and basic assumptions of different treatment strategies.

Credit Points: 6 Contact Hours: 3 per week

📓 MND055 PSYCHOLOGY III

The main objective of this subject will be to educate students to identify problem behaviours in clients and indicate, select and use appropriate intervention and interpersonal skills to assist adjustments of people with psychological problems. The topics covered in the subject include neurosis; psychosis; child psychology; mental retardation and other psychological approaches. **Prerequisite:** MND033

Credit Points: 6 Contact Hours: 3 per week

MND066 PSYCHOLOGY IV

The purpose of this subject is to teach students to explain major theories of counselling; initiate the counselling process; identify appropriate goals and strategies; use appropriate skills and techniques to facilitate client change; evaluate the outcome of counselling.

Prerequisite: MND055

Credit Points: 6 Contact Hours: 3 per week

MND129 PSYCHOLOGY FOR HEALTH PROFESSIONALS A

The purpose of this subject is to teach students to be able to demonstrate effective interpersonal skills in relation to patients and other health professionals; diagnose patient needs and respond appropriately; state causes of stress, effects on health, and indicate appropriate techniques to reduce stress; indicate techniques that may be used to modify patient attitudes and behaviour; demonstrate appropriate problem solving skills in their work situation.

Credit Points: 4 Contact Hours: 3 per week

MND222 MANAGEMENT PERSPECTIVES

This subject will teach students to apply a basic knowledge of the management process to the administration of nursing service; analyse the decision-making process; utilise a management by objects approach in administering nursing service; utilise selected management techniques appropriately; explore methods by which nurse administrators may participate in and initiate change in organisations; examine the relevance of the concepts and principles derived from these models for the administration of nursing service.

Credit Points: 6 Contact Hours: 3 per week

MND415 PSYCHOLOGY

The main purpose of this subject is to educate students to recognise the need for and demonstrate effective interpersonal skills in relation to clients and coworkers; diagnose client and co-worker needs and respond appropriately; state causes of stress, effects on health, and indicate appropriate techniques to reduce stress; outline theoretical frameworks for effective helping, characteristics of effective helpers, and demonstrate appropriate helping skills; develop strategies for dealing with groups and team indicate appropriate strategies for dealing with groups and team problems in their work area; and use appropriate a framework for practice.

Credit Points: 6 Contact Hours: 3 per week

MND501 PSYCHOLOGY

In this subject, the students shall be able to demonstrate effective interpersonal skills in relation to patient and other health professionals, diagnose patient needs and respond appropriately; state causes of stress, effects on health, and indicate appropriate techniques to reduce stress; indicate techniques that may be used to modify patient attitudes and behaviour and demonstrate appropriate problem-solving skills in their work situation.

Credit Points: 6 Contact Hours: 3 per week

MNN100 INTRODUCTION TO MANAGEMENT

This subject explores the process of management, both analytically and experientially. Using a series of case-studies and other learning activities a series of issues typical of those faced by managers are addressed. The tools of various disciplines are used to examine the definition and solution to these problems. Upon completion of the subject, students will be aware of the various means of management, variations over time in what is managed and in the techniques of management. They will be aware of international differences in the management process. Students will confront the gaps between how they think they ought to act, and how they do act in interpersonal managerial contexts. They will also be competent in understanding issues such as pricing, market research, promotional expenditure, staffing levels, wage negotiations and capital expenditure decisions.

Credit Points: 12 Contact Hours: 3 per week

MNN106 MANAGERIAL ECONOMICS

This subject examines principles of economics pertinent to managerial decision-making in an economic environment. Topic areas include an introduction to economics, the macroeconomic environment, demand analysis and forecasting, cost analysis, market strategy, and investment analysis. At the completion of the subject students will be capable of applying economic principles to problems of resource allocation at the firm, in industry and the economy. A principal means of achieving this end will be completion of an industry study by each student, and an analysis of the Commonwealth budget strategy. Credit Points: 12 Contact Hours: 3 per week

MNN201 LABOUR-MANAGEMENT RELATIONS

This subject focuses on the development of managerial policy towards employee relations in the industrial and human resource management sphere. It looks at employee and union action and the role of governments and industrial tribunals. It assesses alternative methods and pressures to change traditional Australian systems. As a result of studying this subject a student will understand the Australian system of labour/management relations, be able to evaluate different systems of regulation in the employment area, understand negotiating processes and develop negotiating skills, and both appreciate and be able to utilise the resources required for mobilising change in this area.

Credit Points: 12 Contact Hours: 3 per week

MNN202 DECISION SUPPORT SYSTEMS

Timely and accurate information is a management resource, and computers can process much of this information to augment and extent a manager's capacity. This subject provides an understanding of the importance, variety and value of both quantitative



and qualitative decision support systems, including a significant emphasis on computer-based information systems (such as data bases and expert systems) from the point of view of systems users rather than of specialist system analysis. With personal computers, managers can themselves build logical decision models, and so the subject also develops skills of building models, applying personal computer software (e.g., IFPS/Personal, spreadsheets) to analyse those models, and incorporating the analyses in complex managerial decision making processes. The subject will also address issues that relate to the human and organisational elements that support managerial decision making.

Credit Points: 12 Contact Hours: 3 per week

MNN203 GOVERNMENT BUSINESS RELATIONS

This subject examines the nature of the relationship between government and business, especially in the Australian context. It focuses both upon the historical development of the relationships that exist between the private and public sectors and of the impact that the policy decisions of each has on the operations of the other.

Credit Points: 12 Contact Hours: 3 per week

MNN204 MARKETING METHODS & PRACTICES

This introductory subject focuses on the role of marketing, and how marketing fits into the strategic processes of firms and institutions. The subject material covers the key marketing decision areas marketing concept, marketing research, consumer behaviour, marketing segmentation and positioning, product policy, pricing, promotion and distribution. Credit Points: 12 Contact Hours: 3 per week

MNN302 PEOPLE IN ORGANISATIONS

The subject examines the internal operation of organisations and the behaviour of those in them. The subject explores a range of theories and models of individual and group behaviour including the structural and action perspectives, role theory, conflict and change. This exposure will encourage students to critically evaluate such theories and models, and their implications for management behaviour, Students will also be encouraged to develop the analytical, attitudinal, behavioural and emotional resources necessary to enable them to cope effectively with the complexities and demands of the human resource system in organisations.

Prerequisite: MNN100

Credit Points: 12 Contact Hours: 3 per week

MNN307 STATISTICAL METHODS

Statistics is the study of the procedures for collecting, analysing and interpreting the quantitative data required for effective decision making. The aim of this subject is to develop an understanding of the basic concepts and techniques of statistical analysis, with particular reference to their application in management. The campus computer may be used. Among the topics covered are graphs and charts, descriptive statistics, probability, sampling methods, analysis of sample results and regression and correlation.

Credit Points: 12 Contact Hours: 3 per week

MNN403 BUSINESS POLICY

Business Policy aims to integrate and focus students' carlier studies by developing a general manager's knowledge, analytical understanding and actiontaking competencies. A general manager is involved in the decision processes of matching a whole organisation's capabilities to its environment, which includes responsibilities to many stakeholders. Thus tasks of general managers are more complex and interdependent than those of specialist or functional managers. The paradigm adopted in this subject is that of strategic management - analyses of stakeholders, environments and capabilities, strategy formulation, implementation. Teaching and strategy methodologies (such as case studies and real-world projects) used during the semester will emphasise the process of management as well as analysis, and will emphasise contexts as well as concepts. At the conclusion of this subject, students should understand how and why strategic decisions are made, and be prepared to make them.

Prerequisite: MNN202

Credit Points: 12 Contact Hours: 3 per week

MNN404 APPLIED RESEARCH PROJECT

This subject allows the student to demonstrate an ability to plan and execute a significant piece of applied research, or to conduct an independent study of an applied area, with a minimum of supervision. Students will be individually assigned to a project supervisor and should contract with them on the nature of the project to be undertaken and the methodology to be used. The final project report, of a maximum of 15,000 words, must demonstrate an ability to identify and research a significant managerial problem area. A comprehensive literature review of the area, and an appreciation of other relevant studies in the area must be included. **Prerequisite:** 10 subjects in the MBA

Credit Points: 12 Contact Hours: 3 per week

MNN601 CONTEMPORARY HEALTH CARE ISSUES

Topics include a comparison of the Australian system of health care with another health care system. The social, political, geographical and economic factors which have shaped the organisation of health care services at local, state, national and/or international levels; funding and resource management; the level and nature of responsibility for health care and health care maintenance; planning for structural change. Among the topics to be considered are consumerism and health quackery; principles of epidemiology and demography; descriptive and analytic measure of health; social distribution of health and illness including the implications of changing patterns of health and disease, the influence of lifestyle factors on health, inequalities in health practices and health status and national goals and targets for improving health. Contact Hours: 3 per week Credit Points: 12

MNN602 HEALTH PLANNING, MANAGEMENT & EVALUATION

This subject applies the theory and principles of planning, management and evaluation to health services. It includes a detailed analysis of health services planning techniques. Information requirements and decision making for the strategic management of health services are examined, together with the principles of financial and personnel management required for the effective development and utilisation of health care. Process and program evaluation in health services and the application of evaluation research and cost-effectiveness will be considered.

Credit Points: 12 Contact Hours: 3 per week

MNN805 CURRENT ISSUES IN AUSTRALIAN MANAGEMENT A

This subject runs concurrently with MNN806 to provide a review of the substantive disciplines within



management and to highlight key issues in the current theory and practice of management. MNN805 covers an analysis of critical environmental changes. It focuses on changes in the economy and in the social and political environment including industrial relations and technological change outlining the key issues that are current in these areas.

Credit Points: 12 Contact Hours: 3 per week

MNN806 CURRENT ISSUES IN AUSTRALIAN MANAGEMENT B

This subject runs concurrently with MNN805 to provide a review of the substantive disciplines within management and to highlight key issues in the current theory and practice of management. MNN806 will focus on current issues within strategic management, with particular emphasis on financial management, strategy and planning and the management of human resources.

Credit Points: 12 Contact Hours: 3 per week

MNN807 RESEARCH DESIGN & DATA ANALYSIS

This subject aims to update and develop student's knowledge of research theory and research procedures in the social sciences with special reference to practical applications in management areas such as economics, marketing and human resource management. This subject also introduces students to problems of logical inference, observation techniques and to advanced data analysis techniques and the advantages and disadvantages of their use in different contexts.

Prerequisites: MNN805/806

Credit Points: 12 Contact Hours: 3 per week

MNN808 MANAGEMENT, TECHNOLOGY & SOCIAL CHANGE

This subject provides a critical and cross-cultural review of the development of management theory and an analysis of management within complex organisations. The course focuses on managers as participants in an organisational dynamic that is both influenced by and influences such factors as the current state of technology, labour markets, world markets and government and community pressures.

Prerequisites: MNN805/806

Credit Points: 12 Contact Hours: 3 per week

🖾 MNN811 POLICY ANALYSIS

Government-business relationships are complex and dynamic. The formulation and implementation of policy in both government and business organisations is particularly sensitive to these relationships. This subject focuses upon the policy process in both public and private sector organisations with an emphasis on the relationship between these sectors as an important determining variable. Models of the policy process will be used as the major explanatory device, and government policies towards business as the context within which their relationships are examined.

Prerequisites: MNN805/806

Credit Points: 12 Contact Hours: 3 per week

MNN812 ORGANISATIONAL PSYCHOLOGY

The course looks at the nature of organisations and the way in which individuals groups and leaders function within organisations. Theories of organisational structures, and the determinants of organisational structure are explored, leading to an examination of climate and culture within organisations. The place of the individual within the organisations and the assumptions underlying the psychological theories which guide our treatment of employees are investigated. The traditional and recent developments in leadership theory are examined. The course ends with a consideration of the future of organisations and changes which will occur.

Prerequisites: MNN805, MNN806

Credit Points: 12 Contact Hours: 3 per week

MNN813 ADVANCED MARKETING MANAGEMENT

An advanced study of marketing, marketing systems and market management decision processes within the contemporary structure of social cultural, political, economic, business and organisational environments. The subject will cover advanced marketing theory from both strategic and tactical perspectives with emphasis on the relationship between marketing and corporate policy as well as both the internal and external social and behavioural and motivational factors that facilitate marketing exchange opportunities. The subject will address those marketing issues associated with both profit and nonprofit organisations and the relevance of marketing theory to these institutions, and will include the developing area of international marketing. Prerequisite: MNN805, MNN806

Credit Points: 12 Contact Hnurs: 3 per week

MNN814 ORGANISATIONAL ECONOMICS

This subject examines the internal structure operation and growth of organisations with special reference to commercial institutions. A wide range of analytical tools is used to address major issues which include the determinants of the internal structure of organisations. The relative effectiveness of the institutions of market and hierarchy in reaching decisions; the determinants of vertical integration; the determinants of the growth and functioning of internal labour markets, and the reasons for the development of firms as economic institutions.

Prerequisite: MNN806

Credit Points: 12 Contact Hours: 3 per week

MNN815 CASE STUDY PROGRAM

The purpose of this subject is to both study and develop case studies in management. Australian Case Studies (for example from the Melbourne University Data Base) will be included in the program, which is intended to develop the student's ability to analyse interdisciplinary problems, explore research problems and learn techniques of team-management and problem solving.

Prerequisites: MNN807, MNN806, MNN808 Credit Points: 12 Contact Hours: 3 per week

MNN816 INITIAL PROJECT IN MANAGEMENT

An investigation by individuals or small groups of students into a managerially significant issue or problem. Students will be expected to choose an area of investigation that will be connected with their final project (MNN830 and MNN831). For example, this may take the form of a review of a section of their proposed area of project work or be part of an initial or pilot study.

Prerequisite: MNN815

Credit Points: 12 Contact Hours: 3 per week

MNN820 APPLIED RESEARCH & DESIGN

This subject aims to give the student an opportunity to test out some practical applications of research theory and analysis. Students will be required to develop a research proposal of interest to them and



related to each student's proposed research project (MNN830). The student will be required to conduct a preliminary or pilot study on a limited number of cases or areas of interest in his/hers proposed research field and to complete a research report justifying and assessing the chosen research methodology and demonstrating the research techniques that will be used in the full study. Annotated comments on the report must also show awareness of different designs and statistical techniques etc. that might have been used demonstrating a good grasp of elements covered in MNN810 and the earlier analyses of case study material in this course.

Prerequisite: MNN807 Credit Points: 12 Contact Hours: 3 per week

MNN830 PROJECT & SEMINAR A

MNN831 PROJECT & SEMINAR B

Students are required to write an original project on an area of interest in the management field. During the first year of a full-time program (second of parttime) the student should finalise his/her choice of area. The Management Graduate Studies Board will then nominate a supervisor for the research. Once the area of interest is chosen, the student will be expected to relate to that specialism in other courses for example in the Case Study Program, in initial Project in Management and in Applied Research Design, A seminar program will be designed to enable students to give presentations on the course of their research and learn from the research experience of their colleagues. The project itself must demonstrate the student's ability to combine analytic and theoretical ability with an understanding of practical features.

Prerequisite: MNN816, MNN820

Credit Points: 12 (MNN830); (24 MNN831) Contact Hours: 3 per week

MNP054 MANAGEMENT & MARKETING

On completion of this unit, the student will be able to understand the development of human resources in an organisation; identify, describe and apply the functions of management in an hospital/service industry setting; analyse and critically examine organisations, especially the structure of the organisation and its relevance to the achievement of objectives; understand and assess the role of marketing in an organisation; define and analyse the influence of the marketing function in public health and nutrition.

Credit Points: 12 Contact Hours: 3 per week MNP112 QUALITY SYSTEM MANAGEMENT

Introduction to the role of quality in a modern company. Quality as a measure of both organisational performance and of products and services. Quality if a total management philosophy. Comparative management practices in quality; Japan, Europe and North America; application to Australia. Organising for quality; organisational structure; the quality plan; the manual of procedures. Managing for quality; use of statistics; continuous improvement implementing company-wide quality control.

Credit Points: 6 Contact Hours: 3 per week

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MNP113 MANAGING COMMUNICATIONS FOR QUALITY

Communication as part of a quality process; management, employees, customers and suppliers in the communication network. Communicating the quality plan; commitment; policy; objectives. Employee participation: consultation and feedback to improve quality; quality circles and Australian organisations. Management communication on quality; what information should be reported; how to present it; interpersonal and negotiation skills; written communications. Introduction to market research. Communicating with the market and with the business environment. Quality as a customer determination: the Deming cycle and its implications.

Credit Points: 6 Contact Hours: 3 per week

MNP123 HUMAN FACTORS IN QUALITY

Human behaviour concepts and their application to quality management. Interpersonal skills and organisational culture, intrapersonal factors. Concepts in motivation, perception, learning, attitudes, etc. Ergonomics and work place design, aspects of the work environment which can affect performance.

Credit Points: 6 Contact Hours: 3 per week

MNP218 ECONOMIC ANALYSIS

Australia's international trading performance relative to other industrialised nations. The potential economic impact on quality control systems on primary, secondary and tertiary sectors of Australian industry. Economics of the firm and the quality factor, quality as a determinant of demand, demand elasticity, goods attribute theory. Tools for incorporating quality into investment decision: opportunity and marginal costs; obsolescence and economic life; repair and major overhaul; criteria for comparing economic alternatives.

Credit Points: 6 Contact Hours: 3 per week

MNP309 TECHNOLOGICAL INNOVATION

Technological innovation focuses primarily on the nature and management of research and development and technical aspects of innovative products and processes. In this regard, attention is given to such issues as product design and development and the assurance of quality and reliability. Furthermore, the subject aims at acquainting students with the multifaccted nature of product feasibility. Where applicable students will be provided with techniques and strategies relating to the above areas.

Credit Points: 12 Contact Hours: 3 per week

MNP310 VENTURE MANAGEMENT & DEVELOPMENT

The subject will introduce students to concepts and techniques in general management, the management of self and the management of innovation and change. This will include fundamentals of business planning, organising, controlling and staffing. The subject will also require students to formulate a comprehensive business plan for an actual invention by working closely with inventors/entrepreneurs.

Prerequisites: All other subjects in Product Entrepreneurship Strand (B) except ACP851

Credit Points: 12 Contact Hours: 3 per week

🖾 MNP333 GRADUATE PROJECTS

This subject aims to give the graduate student an opportunity to undertake an applied project as part of the Graduate Diploma in Business Administration. The graduate project may be in any of the major areas within the School of Management subject to approval of the Graduate Studies Board. Students wishing to undertake the graduate project should seek the agreement of a staff member to act as supervisor. Students will have completed such subjects in the GDBA course or in previous study which in the opinion of the supervisor and the Graduate Studies Board will stand as appropriate prerequisites for the project. Credit Points: 12 Contact Hours: 3 per week



MNP508 AUSTRALIAN POLICY STUDIES

This subject has two central themes. One, the critical analysis of public policy content, using a series of case studies. Two, the development and analysis of explanatory models of the Australian policy process. The role of key institutions and groups in the policy process will be examined in relation to the case studies selected and the explanatory models.

Credit Points: 12 Contact Hours: 3 per week

MSA111 BIOLOGICAL CHEMISTRY I

Offered: Autumn

A course introducing the basic biochemistry of major groups of biologically important compounds, including carbohydrates, lipids, nucleic acids and protein synthesis and proteins. Biochemical homeostasis in biol gical systems is considered.

C 4 Points: 8 Contact Hours: 4 per week

MSA112 BIOLOGICAL CHEMISTRY II

Offered: Spring

A course which deals with basic metabolism. Topics include: biological catalysis; energetics of biological systems; catabolic and anabolic pathways for the metabolism of carbohydrates, lipids, amino acids and nucleic acids; metabolic control and integration. **Prerequisites:** MSA111, MSA123

Credit Points: 8 Contact Hours: 4 per week

MSA113 INTRODUCTORY BIOCHEMISTRY

Offered: Spring

Molecular aspects of cellular structure and organisation. Nomenclature and basic chemistry of simple biological molecules. Amino acids and proteins: fibrous and globular proteins; enzymes and factors affecting their activity. Structure, function and reactions of carbohydrates and lipids and their role as structural components and metabolites. Nucleic acids in cell growth and syntheses. Cell dynamics and analytical methods.

Credit Points: 8 Contact Hours: 3 per week

MSA120 PERSPECTIVES IN MEDICINE

Offered: Autumn

An introduction to the health care area. The course includes presentations by specialists in areas of health care and delivery. Topics addressed include safety, functioning of laboratories in hospitals, country pathology services, clinical measurement and research laboratories as well as related topics such as stress management and the roles of various laboratory personnel.

Credit Points: 4 Contact Hours: 1 per week

MSA121 PATHOLOGY

Offered: Spring

Application of scientific methods to the study of the general principles of disease processes and the major diseases of the organ systems. Correct understanding and use of pathological terms and concepts are emphasised. **Prerequisites:** PNA170, PNA171

Co-requisite: PNA171

Credit Points: 8 Contact Hours: 2 per week

MSA123 LABORATORY INSTRUMENTATION I

Offered: Autumn

A course of lectures and practical work on the principles, care and effective usage of basic laboratory equipment including glassware, plastics, balances, spectrophotometers, fiamephorometers, autotitrators, pH meters and specific ion meters. Programmable calculators and computers are used during the practical course to illustrate modern methods of data manipulation. In addition the practical course aims to provide experience in the handling of chemicals, and in the preparation of reagents and standards. In this work emphasis is placed on aspects of laboratory safety. **Co-requisite:** MSA111

Credit Points: 8 Contact Hours: 4 per week

INSTRUMENTATION II Offered: Spring

A course of lectures and practical work designed to integrate the principles and techniques of macromolecule separation by a variety of chromatographic procedures and various methods of electrophoresis, dialysis, filtration and centrifugation.

Prerequisite: MSA123

Credit Points: 8 Contact Hours: 4 per week

Offered: Autumn

An introduction to the biology of bacteria, fungi, algae, protozoa and viruses, with consideration of structure, nutrition, reproduction, genetics, and classification systems. The practical course is a simed at developing the manipulative skills necessary for laboratory identification of microbial forms.

Credit Points: 8 Contact Hours: 3 per week

MSA162 MICROBIOLOGY II

Offered: Spring

The growth of microbial populations and methods of controlling growth; sterilisation and disinfection methods; enzymic activity of microorganisms; the identification of the microorganisms more important in public health; host-parasite relationships and an introduction to immunity.

Prerequisite: MSA161

Credit Points: 8 Contact Hours: 3 per week

MSA435 IMMUNOLOGICAL TECHNIQUES III

Offered: Autumn

The subject aims to provide an introduction to immunology with particular emphasis on the principle and performance of basic immunological techniques including blood grouping. Topics include antigens, antibodies and the immune system.

Prerequisites: PNA170, PNA171

Credit Points: 8 Contact Hours: 4 per week

MSA436 TRANSFUSION TECHNIQUES IV Offered: Spring

A course applying the basic knowledge of immunology gained in Immunological Techniques III to the study of human blood group systems. Topics include principles of immunohaematology, ABO blood group, Rh blood group system, compatibility testing, antibody identification, investigation of transfusion reactions, antenatal testing, quality control and intravenous fluids and blood products.

Prerequisite: MSA435

Credit Points: 8 Contact Hours: 4 per week

☑ MSA441 CLINICAL MICROBIOLOGICAL TECHNIQUES III

Offered: Autumn

The techniques used in isolation and identification of bacteria important in human and animal infections; the use of computerised data bases to assist in bacterial identification; tests for the sensitivity of bacteria to antibiotics; preparation, sterilisation, quality control and use of bacteriological media.

Prerequisite: MSA162 Credit Points: 8

ts: 8 Contact Hours: 4 per week



MSA442 CLINICAL MICROBIOLOGICAL TECHNIQUES IV

Offered: Spring

The course aims to teach basic microbiological techniques in the following disciplines; virology, mycology and parasitology (enteric parasites). The practical periods are used to reinforce the theoretical aspects of the subject.

Prerequisite: MSA162

Credit Points: 8 Contact Hours: 4 per week

MSA463 HISTOLOGICAL TECHNIQUES III Offered: Autumn

A basic course presenting methods of preparing tissue samples for examination by the various forms of light microscopy. Topics include fixation, tissue processing, microtomy and an introduction to staining and light microscope techniques.

Prerequisites: PNA170, PNA171, MSA123

Credit Points: 8 Contact Hours: 4 per week

MSA464 HISTOLOGICAL TECHNIQUES IV Offered: Spring

An advanced course dealing with specialised methods for identifying tissue components. Topics include electron microscopy, histochemistry, immunohistochemistry. Emphasis is placed on the practical application of these methods in histopathology. **Prerequisites:** MSA112, MSA463

Credit Points: 8 Contact Hours: 4 per week

MSA465 CYTOLOGICAL TECHNIQUES III Offered: Autumn

A course of lectures and associated practical sessions in cytological methods and normal gynaecological cytology. The course provides a basis for the study of clinical cytology offered in MSA466.

clinical cytology offered in MSA466. Prerequisite: MSA112, PNA170, PNA171

Credit Points: 8 Contact Hours: 4 per week

MSA466 CYTOLOGICAL TECHNIQUES IV Offered: Spring

A course of lectures and associated practical work presenting specialised preparative methods for nongynaccological cytology and demonstrating the evaluation of specimens commonly encountered in routine diagnostic cytology.

Prerequisite: MSA465

Credit Points: 8 Contact Hours: 4 per week

MSA471 CLINICAL BIOCHEMICAL TECHNIQUES III

Offered: Autumn

A study of the basic chemical procedures used in biochemical laboratories with emphasis on technique and accuracy. Topics include tests of renal, pancreatic, hepatic and gastric functions, and the estimation of serum proteins and lipids.

Prerequisite: MSA112, PNA171

Credit Points: 8 Contact Hours: 4 per week

MSA472 CLINICAL BIOCHEMICAL TECHNIQUES IV

Offered: Spring

A study of more complex techniques used in clinical biochemical laboratories, including enzyme assays, estimations of electrolytes, blood gases, drugs, vitamins and hormones. Auto analytical techniques and quality control are also treated.

Prerequisite: MSA471

Credit Points: 8 Contact Hours: 4 per week

MSA481 HAEMATOLOGICAL TECHNIQUES III

Offered: Autumn

A course of lectures and associated practical work in basic haematological techniques. Topics include the counting of blood cells, the preparation, staining and examination of blood films, the determination of the red cell indices, supravital staining techniques erythrocyte sedimentation rate and origin and maturation of blood cells.

Prerequisite: PNA170, PNA171

Credit Points: 8 Contact Hours: 4 per week

MSA482 HAEMATOLOGICAL TECHNIQUES IV

Offered: Spring

This subject is an extension of MSA481 Haematological Techniques III. The student is introduced to the common blood disorders. A brief outline of their courses and laboratory investigation is given. However the main emphasis is the use of the basic haematological techniques and some specialised laboratory procedures used in the investigation of commonly encountered blood disease. The basic theory of haemostasis and the screening tests used in the investigation of the bleeding disorders are discussed.

Prerequisite: MSA481

Credit Points: 8 Contact Hours: 4 per week

MSB101 MICROBIOLOGY I

Offered: Autumn, Spring

The subject acts as an introduction to the study of microbiology, biochemistry & biotechnology. The diversity of microbes is presented together with the various forms of microscopy used to study them. Important biological molecules, both inorganic and organic, are discussed with emphasis on the mode of action of enzymes and their role in energy production. A detailed study is made of the morphology of eukaryotic cells, prokaryotic cells and viruses.

Credit Points: 6 Contact Hours: 3 per week

MSB102 MICROBIOLOGY II

Offered: Autumn

A continuation of basic microbiology introduced in MSB101. Lectures and practical exercises will deal with aspects of microbial nutrition, control of microbial populations, genetics, principles of taxonomy and the identification of bacteria.

Prerequisite: MSB101, MSB474

Credit Points: 6 Contact Hours: 3 per week

MSB103 MICROBIOLOGY III

Offered: Spring

The subject deals with aspects of applied microbiology and the taxonomy of important groups of microorganisms, pathways of metabolism, genetic manipulation, biodeterioration and bioleaching, fermentations, biological waste treatment, microbial ecology, agricultural microbiology and water and food microbiology.

Prerequisite: MSB102

Credit Points: 8 Contact Hours: 3 per week

MSB120 INTRODUCTION TO PATHOLOGY

Offered: Spring

Application of scientific methods to the study of the general principles of disease processes and the major diseases of the organ systems. Correct understanding and use of pathological terms & concepts are emphasised. Programistics PNP 125

Prerequisite: PNB125 Credit Points: 6 Co

Contact Hours: 2 per week



MSB145 LABORATORY TECHNOLOGY II Offered: Spring

A course dealing with the theoretical and practical aspects of instrumental analysis in the clinical laboratory. Topics covered include glassware, plastics, balances, spectrophotometers, flamephotometers, autoitrators, pH meters and specific ion meters. Programmable calculators and computers are used during the practical course to illustrate modern methods of data manipulation. Emphasis is placed throughout on the effective use of the instruments.

Prerequisite: PHB150

Co-requisites: CHB242, PHB250

Credit Points: 8 Contact Hours: 3 per week

MSB150 MICROBIOLOGY

Offered: Spring

This subject examines the characteristics of medically important organisms, sterilisation and disinfection, host parasite relationships, resistance and immunity, infectious diseases, diagnosis, selected microbial infections, chemotherapy and development of resistance by microorganisms.

Credit Points: 6 Contact Hours: 2 per week

📓 MSB201 MICROBIOLOGY

Offered: Spring

An introductory core unit of lectures and practical exercises in microbiology dealing with cytology, nutrition, genetics, control of microbial populations, and principles of taxonomy.

Credit Points: 6 Contact Hours: 3 per week

MSB301 MICROBIOLOGY I

Offered: Autumn

This subject considers the classification and identification of microorganisms. Emphasis is on their microbiology and reproduction. Organisms dealt with the protozoa, helminths, fungi and bacteria and algae. **Credit Points:** 6 **Contact Hours:** 3 per week

MSB310BIOCHEMICAL METHODOLOGY III

Offered: Autumn

A companion to MSB415 emphasising biochemical laboratory methods and practice and dealing with pH measurement and buffers, UV and visible spectrophotometry, chromatography, electrophoresis and isotope techniques.

Prerequisites: MSB101, MAB208

Co-requisite: MSB415

Credit Points: 8 Contact Hours: 4 per week

MSB320 SYSTEMATIC PATHOLOGY

Offered: Autumn

Detailed study of the diseases of the organ systems: cardiovascular, respiratory, alimentary, urogenital, nervous musculoskeletal, endocrine, haematologic and skin.

Prerequisite: MSB120

Credit Points: 8 Contact Hours: 4 per week

MSB402 MICROBIOLOGY II

Offered: Spring

This subject extends the principles covered in MSB301 and considers the classification and identification of microorganisms, their infectious capability, host responses and the role of microorganisms in nature and in industrial processes, the enumeration of microorganisms, the control of microbial populations. The classification of viruses and their reproductive cycle is briefly considered.

Prerequisite: MSB301

Credit Points: 6 Contact Hours: 3 per week

MSB405 LABORATORY COMPUTING III Offered: Autumn

The first section of this subject extends the knowledge of computing gained in Laboratory Computing I by examining the programming process in more detail. This leads on to the second section which concentrates on the practical application and operation of computers in a laboratory. The use of software packages forms an important part of this course. **Prercquisite:** CSB259

Credit Points: 8 Contact Hours: 3 per week

MSB408 VIROLOGY IV

Offered: Spring

This subject is an introductory course in virology and will include the range of viruses and virus diseases, their morphology and composition; virus replication, taxonomy and classification and the major virus groups; purification of viruses; diagnosis and virus assay; transmission and "life" cycles; control and eradication of viruses.

Prerequisite: MSB415 or MSB473 and MSB450 Credit Points: 8 Contact Hours: 4 pcr week

MSB410 BIOCHEMICAL METHODOLOGY IV

Offered: Spring

A companion subject to MSB416 which continues the studies of MSB310. This unit extends studies of chromatographic and electrophoretic methods, protein binding techniques and the methodology of protein and nucleic analysis.

Prerequisite: MSB310 Co-requisite: MSB416 Credit Points: 8 Contact Hours: 4 per week

MSB412 IMMUNOLOGY IV

Offered: Spring

A study of the mechanisms of the immune process including the nature of antigen, antibodies, antigenantibody reactions, antibody formation, control of the humoral and cell-mediated immune responses, hypersensitivity and allergy and immunisation of man against infections.

Prerequisites: PNB465, MSB445

Credit Points: 8 Contact Hours: 4 per week

MSB415 BIOCHEMISTRY III

Offered: Autumn, Spring

A course of 28 lectures and 42 hours laboratory work introducing properties, biological molecules and at the molecular level with particular emphasis on cell structure and function, the chemistry of proteins, enzymology, energy production and utilisation, the chemistry and functions of carbohydrates.

Prerequisites: CHB242, PHB250, MSB101

Credit Points: 10 Contact Hours: 5 per week

🖾 MSB416 BIOCHEMISTRY IV

Offered: Autumn, Spring

A course of 28 lectures and 42 hours laboratory work considering aspects of carbohydrate metabolism in mammals, the chemistry and metabolism of lipids, the basic catabolism of amino acids, the chemistry and function of the nucleic acids, protein biosynthesis and the molecular bases of genetic mutation.

Prerequisite: MSB415

Credif Points: 10 Contact Hours: 5 per week

MSB420 IMAGING PATHOLOGY

Offered: Autumn

A study of the appearances of pathology on medical images with particular emphasis on the radiographic image. Prerequisite: MSB320

Credit Points: 4 Contact Hours: 2 per week



MSB421 ELECTRON MICROSCOPY

Offered: Spring

A course providing a theoretical background to the operation, scanning and transmission electron microscopes and applications in biological, materials and forensic science. Basic principles of specimen preparation will be covered, both materials and biological samples and the analytical capabilities of electron beam instruments will be introduced.

Credit Points: 6 Contact Hours: 2 per week

MSB426 HAEMATOLOGY IV

Offered: Spring

In the first of the three haematology subjects the student is introduced to the theory of the origin, development and composition of normal blood. Laboratory tests (principles, outline of the techniques and interpretation) used in the screening of blood samples are discussed in detail. Basic haematologic tests included in this unit include: preparation, staining and examination of blood films, determination of the red cell indices, supravital staining, erythrocyte sedimentation rate, screening tests used in the investigation of a bleeding disorder.

Prerequisite: MSB445, PNB132, PNB465 Co-requisite: MSB416 Credit Points: 8 Contact Hours: 4 per week

MSB430 DISEASE PROCESSES IV

Offered: Spring

A course introducing the principles of the study of disease and dealing with the causes and nature of circulation disorders, degenerative processes, metabolic and nutritional disorders, disturbances of development and growth, inflammation, infections and infestations, regeneration and repair, and neoplasia. The course includes the applications of general pathology to the study of diseases of the heart and circulatory system, digestive system, respiratory system, haematologic system and skin.

Prerequisite: PNB163 or PNB131

Co-requisites: PNB465 or PNB435

Credit Points: 4 Contact Hours: 2 per week

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The course deals with techniques encountered in the clinical laboratory. Topics include immunoassay, enzymic analysis, electrophoresis, isoelectric focusing, and chromatography (gel filtration, ion exchange, affinity, and high performance liquid chromatography). Emphasis is placed on the maintenance of accuracy, precision and quality control in the clinical laboratory. **Prerequisite:** MSB145

Credit Points: 8 Contact Hours: 3 per week

MSB450 MICROBIOLOGY III

Offered: Autumn, Spring

An introductory core unit of lectures and practical exercises in microbiology dealing with cytology, nutrition, genetics, control of microbial populations, and principles of taxonomy.

Prerequisite: MSB101 (except optometry students) Co-requisite: MSB415 (except optometry students) Credit Points: 6 Contact Hours: 3 per week

MSB454 MICROBIOLOGY IV

Offered: Autumn, Spring

An extension of the core course in Microbiology (MSB450), includes aspects of microbial taxonomy, food and water microbiology, microbial ecology, industrial and agricultural microbiology and the role of microorganisms as infectious agents.

Prerequisite: MSB450 Co-requisite: MSB416 Credit Points: 8 Contact Hours: 4 per week

MSB471 BIOCHEMISTRY IV

Offered: Autumn

A course of 28 lectures and 28 hours of laboratory work introducing the structures and functions of proteins, carbohydrates, lipids and nucleic acids, basic enzymology, mechanisms of cellular energy production and the role of ATP, an outline of the metabolism of carbohydrates, lipids and amino acids and the fundamentals of protein biosynthesis and molecular biology. **Prerequisite:** CHB242

Credif Points: 8 Contact Hours: 4 per week

MSB473 BIOCHEMISTRY III

Offered: Autumn

This subject will cover the biochemistry or proteins including structure-function relationships, enzymology including basic kinetics and control mechanisms relevant to metabolism, the mechanism and role of the Krebs (Citric Acid) Cycle including stoichiometry and energetics and biocnergetics including the mechanisms of electron transport and synthesis at ATP.

Prerequisite: MSB101, CHB150, CHB250

Credit Pnints: 6 Contact Hours: 3 per week

MSB492 HISTOPATHOLOGY IV

Offered: Spring

An introductory course presenting methods of preparing tissue samples for examination by the various methods of light and electron microscopy. Topics include fixation, embedding, microtomy and an introduction to staining and microscopy techniques.

Co-requisites: PNB132, CHB242

Credit Points: 8 Contact Hours: 4 per week

MSB510 FOOD MICROBIOLOGY

Offered: Autumn

A course of lectures and associated practical work dealing with aspects of the microbiology of foods and water. Topics include foodborne infections and intoxications; food hygiene; food ecology and its relationship to spoilage and preservation; fermentations; methods of microbiological examination of foods.

Prerequisite: MSB454

Credit Points: 8 Contact Hours: 3 per week

MSB511 MICROBIAL PHYSIOLOGY & METABOLISM V

Offered: Autumn

An advanced course of lectures and practical sessions relating to the composition, organisation, structure and activity of the microbial cell (bacteria, yeasts and fungi). Topics include light microscopy and staining methods; cell structure; enrichment, isolation & growth of cultures; cells, populations and the kinetics of growth; biosynthesis of cellular materials; regulation of metabolism; microbial genetics; sporogenesis and germination.

Prerequisite: MSB454

Credit Points: 10 Contact Hours: 4 per week

MSB512 VIROLOGY V

Offered: Autumn

A course of lectures and laboratory exercises dealing with the nature of viruses; viral replication; viral transmission; viral diseases of humans, animals and plants and their diagnosis; virus purification and assay. **Prerequisite:** MSB454

Credit Points: 8 Contact Hours: 3 per week



MSB520 BIOCHEMISTRY V

Offered: Autumn

An extension of studies begun in MSB415 and MSB416 considering further aspects of carbohydrate metabolism emphasising non-mammalian systems, lipid metabolism including steroid biosynthesis, amino acid metabolism in mammalian and non-mammalian systems and regulation and integration of metabolism.

Prerequisite: MSB416

Credit Points: 12 Contact Hours: 5 per week

MSB521 BIOCHEMICAL SEPARATIONS

Offered: Autumn

An advanced course of lectures and a comprehensive project designed to integrate a number of specialist biochemical procedures including centrifugation, chromatography, electrophoresis and spectrophotometry. Students will be required to design and execute an experimental protocol for the separation of selected macromolecules.

Prerequisite: MSB310 Co-requisite: MSB520 Credit Points: 10 Contact Hours: 4 per week

MSB530 INTRODUCTORY MOLECULAR BIOLOGY

Offered: Autumn

An introductory subject of lectures and practical exercises in molecular biology including types and structures of DNA and RNA, the genetic code and protein synthesis; DNA replication, repair and mutability; transcription and translation; gene structure, function and expression in prokaryotes and eukaryotes; transferable DNA including plasmids, bacteriophage and transposable elements.

Prerequisite: MSB416, MSB454

Credit Points: 10 Contact Hours: 5 per week

MSB610 MICROBIAL TECHNOLOGY

Offered: Spring

An advanced course of lectures and practical sessions dealing with the industrial use of microorganisms. Topics include screening and strain development; large scale fermentation; membrane filtration; product recovery; biochemical engineering; production of: immunising agents and diagnostic reagents; primary and secondary metabolites of industrial importance; single cell protein; microbial transformations; biodeterioration and bioleaching. Prerequisite: MSB511

Credit Points: 10 Contact Hours: 5 per week

MSB611 APPLIED MICROBIOLOGY

Offered: Spring

An advanced course of lectures and practical sessions with emphasis upon the applied aspects of microbiology. Topics to include electron microscopy; systematics and nomenclature; plant and soil microbiology; preservation of cultures and cell lines. Prerequisite: MSB511

Credit Points: 10 Contact Hours: 4 per week

MSB620 BIOCHEMISTRY VI

Offered: Spring

An extension of studies begun in MSB415 and MSB416, considering further aspects of protein chemistry, physical biochemistry, enzymology, bioenergetics, applied biochemistry.

Prerequisite: MSB416

Credit Points: 12 Contact Hours: 5 per week

MSB621 ANALYTICAL BIOCHEMISTRY VI Offered: Spring

A companion unit to MSB620 which extends the subject matter of MSB410 into biochemical analysis. This subject treats enzyme-based analyses, advanced analysis using isotopes, immunoassays and specific methods for the major biomolecules.

Prerequisite: MSB410 Co-requisite: MSB620 Credit Points: 10 Contact Hours: 4 per week

MSB630 GENETIC ENGINEERING

Offered: Spring

This subject of lectures and practical exercises introduces the techniques in genetic engineering including the enzymes, the vectors and hosts, gene isolation and detection of recombinant genes; strategies of gene cloning, genomic and cDNA libraries and gene identification; and applications of genetic engineering. **Prerequisite:** MSB530

Credit Points: 10 Contact Hours: 5 per week

MSB631 NUTRITIONAL BIOCHEMISTRY Offered: Spring

This subject builds on a student's background of basic biochemistry. The effect of nutrient intake on metabolic balance and the use of laboratory data for monitoring metabolic balance are highlighted. Specific topics include: the digestion, absorption and assimilation of the macronutrients; the metabolic basis of primary nutritional diseases; biochemical assessment of nutritional status; the clinical significance of pathology laboratory data; integration of metabolism in a variety of pharmacological and pathological conditions which require dietary intervention: drug-nutrient interactions.

Prerequisite: PNB305 + PNB405

Co-requisite: MSB719

Credit Points: 10 Contact Hours:: 4 per week

MSB712 IMMUNOLOGY V

Offered: Autumn

This unit builds on the basic understanding provided in Immunology IV to provide an understanding of the genetic control of antibody diversity, the function of antibody and complement at a molecular level, cell interactions in the immune response and immunological process in resistance to and recovery from infection. Practical classes place emphasis on the competent performance of immunological procedures rather than just a demonstration of immunological principles.

Prerequisite: MSB412, MSB416, MSB454 Credit Points: 8 Contact Hours: 4 per week

MSB713 IMMUNOHAEMATOLOGY VI

Offered: Spring

This course is designed to supply the competence in theoretical and practical blood transfusion which would be required of a scientist working in a hospital blood bank. The understanding of immunology gained in Immunology IV and Immunology V is applied to the area of blood banking. Topics include blood group systems, compatibility testing, antibody identification, antenatal serology, clinical use of blood and blood products and quality control.

Prerequisite: MSB712 Credit Points: 8 Contact Hours: 4 per week

MSB718 CLINICAL BIOCHEMISTRY V

Offered: Autumn

This course introduces the study of chemical aspects of human life in health and illness and discusses the application of chemical laboratory methods to diag-



nosis, control of treatment and prevention of disease. Topics include kidney, pancreas, liver and gastric functions, and the metabolism of lipids, carbohydrates and proteins.

Prerequisite: MSB416, MSB445, PNB465 Co-requisite: MAB252

Credit Points: 8 Contact Hours: 4 per week

MSB719 CLINICAL BIOCHEMISTRY VI

Offered: Spring

This course further develops clinical biochemistry with emphasis on enzymes, electrolytes, blood gases, drugs, vitamins, functions of the thyroid and adrenal gland, auto-analyses, quality control and steroid metabolism. **Prerequisite:** MSB718

Credit Points: 8 Contact Hours: 4 per week

MSB726 HAEMATOLOGY V

Offered: Autumn

Haematology V is the first of two units in which the student is introduced to the diseases of the blood. Each blood disease is considered under the following headings: cause, laboratory investigation, prognosis, principles of treatment and laboratory monitoring of treatment. The blood disorders discussed in this unit include - bleeding disorders, iron deficiency anaemia, anaemia of chronic disease, macrocytic academia and pancytopenia.

Prerequisite: MSB426

Credit Points: 8 Contact Hours: 4 per week

MSB727 HAEMATOLOGY VI

Offered: Spring

This unit continues the study of blood discases. The format follows the one outlined for Haematology V. Topics in this unit include: haemolytic anaemia, leukaemia and related discases, paediatric haematology, blood disorders in the elderly and veterinary haematology.

Prerequisite: MSB726

Credit Points: 8 Contact Hours: 4 per week

MSB755 MICROBIOLOGY V

Offered: Autumn

A study of parasitology (85 semester hours) directed towards the laboratory diagnosis of parasitic disease in man. It consists of a systematic study of identification, life history, incidence, modes of infection, epidemiology and control of the parasites of man. Emphasis is placed on parasites evident in Australia and on those most likely to penetrate the quarantine barrier. A study of clinical mycology (20 semester hours) including characterisation of fungi responsible for systemic and superficial infections in man. **Prerequisite:** MSB454

Credit Points: 16 Contact Hours: 7 per week

MSB756 CLINICAL BACTERIOLOGY VI Offered: Spring

A study of clinical bacteriology, dealing with the characteristics, isolation and identification of bacteria implicated in human disease, the collection and examination of clinical specimens, the initial use of computerised data bases in bacterial identification and antibiotic sensitivity tests on laboratory isolates, the interpretation and clear reporting of results.

Prerequisite: MSB454, MSB416

Credit Points: 16 Contact Hours: 7 per week

MSB761 FUNDAMENTALS OF MEDICINE I

This subject provides medical record administration students with the theoretical basis for an understanding of the process of medical care. MRAs must understand the nature of disease processes and the clinician's response to them in order to: design appropriate and efficient health information services for all types of health care facilities; communicate effectively with other health professionals involved in the care of patients; and assist in research and quality assurance programs in the health services. A review of the important and frequently encountered diseases and includes disorders of the major body systems. **Prerequisite:** PNB262

Credit Points: 12 Contact Hours:: 3 per week

MSB762 FUNDAMENTALS OF MEDICINE II

This subject continues the study of the process of medical care begun in Fundamentals of Medicine I. In addition it includes the study of the roles and functions of allied health professions, and of technological services in the diagnosis and treatment of disease.

Prerequisite: MSB761

Credit Points: 12 Contact Hours:: 3 per week

MSB792 HISTOPATHOLOGY V

Offered; Autumn

A detailed study of techniques used in routine histopathology including methods for immunohistochemistry and transmission electron microscopy. Emphasis is placed on the application and relevance of methods to particular diagnostic areas. **Prerequisite:** MSB492, MSB416, PNB465,

MSB445, PNB132

Credit Points: 8 Contact Hours: 4 per week

MSB793 HISTOPATHOLOGY VI

Offered: Spring

The course reviews recent advances in diagnostic histopathology and introduces advanced and specialised methods including scanning electron microscopy and X-ray microanalysis. A major component is an overview of techniques for diagnostic cytology concentrating on specimen preparation and the microscopic detection of cancerous and other abnormal cells in human tissues and body fluids. **Prerequisite:** MSB792

Credit Points: 8 Contact Hours: 4 per week

MSD360 MICROBIOLOGY I

Offered: Autumn

An introduction to the microbial world with emphasis on organisms causing disease in humans and on hostparasite relationships. The nature of bacteria, viruses, fungi and protozoa, their appearance and means of replication. Sterilisation and disinfection, antibiotics and chemotherapeutic agents. An introduction to bacterial genetics.

Credit Points: 3 Contact Hours: 2 per week

MSD410 PATHOLOGY

Offered: Autumn

An introduction to the process of disease and to the processes taking place in the production of conditions requiring clinical treatment.

Prerequisite: PND132 Co-requisite: PND430 Credit Points: 2 Contact Hours: 1 per week

MSD460 MICROBIOLOGY II

Offered: Spring

Sources of human infection and modes of transmission in bacterial, viral and fungal infections. Concepts of host resistance. Immunity to infectious disease and the broader concepts of immunology. Consideration of the more important microorganisms responsible for



human disease with emphasis on the causative agents, diagnostic measures, prophylaxis and therapy. **Prerequisite:** MSD360

Credit Points: 6 Contact Hours: 3 per week

MSD680 EPIDEMOLOGY

Offered: Autumn

An introduction into principles and application of epidemiology. The definition and application of terms and parameters. Agents of disease: physical, chemical, biological, social, and their interactions. Data used in epidemiology studies and their sources and accuracy. Methods and approaches. Examples will be freely chosen from communicable and non-communicable diseases and student will gain practice in model studies.

Credit Points: 6 Contact Hours: 3 per week

MSD751 INTRODUCTORY EPIDEMIOLOGY

Offered: Autumn

History and purposes of epidemiology, definitions and application of terms used in epidemiology, etiological agents of disease, measurement, methods and approaches.

Credit Points: 2 Contact Hours: 1 per week

MSN102 CELLULAR BASIS OF DISEASE Offered: Spring

The following material will be presented in either lectures or tutorials. Cell injury and stress mechanisms. Cellular communication. The responses of organelles, cells and tissues to injury and stress including the following: immune, inflammation, thrombosis, ageing and neoplastic responses. Transplantation and regeneration.

Prerequisite: 24 Credit Points in Master of Health Science

Credit Points: 12 Contact Hours: 3 per week

MSN110 MOLECULAR BASIS OF DISEASE

Offered: Autumn

This course of study aims to provide an understanding, at the molecular level, of the aetiology, diagnosis and treatment of various diseases, by a study of molecular structures, biochemical reactions, and the integration and control of metabolism. Topics for study will include: gene structure and function, proteins-structure and molecular dysfunction, and enzymes-properties and alterations in diseases; metabolic integration and hormone action, hormones and organ disease, disorders of carbohydrate and lipid metabolism and chemotherapy.

Prerequisite: 24 Credit Points in Master of Health Science

Credit Points: 12 Contact Hours: 3 per week

MSN150 EPIDEMIOLOGY & RESEARCH STRATEGIES

Offered: Autumn

An introduction to the principles and applications of epidemiology with emphasis given to its scope and value in establishing disease actiology. Course topics will include epidemiological methods (descriptive, analytical and experimental), epidemiological concepts, causal relationships, measurement of morbidity and mortality statistical overview of the health of the Australian population, and the investigation of an epidemic.

Credit Points: 12 Contact Hours: 3 per week

MSN306 PATHOPHYSIOLOGY

Offered: Spring

A study of selected pathophysiological states which represent major alteration in physiological functioning, occurring in each developmental phase.

Prerequisite: 72 Credit Points in Master of Health Science

Credit Points: 12 Contact Hours: 3 per week

MSN401 ADVANCES IN MEDICAL LABORATORY SCIENCE

Offered: Spring

A series of lectures to provide current and topical information across the general field of medical laboratory science. In addition, topics which have significant implications on the advancement of the profession will be presented, e.g., computers, laboratory automation, biotechnology, self-diagnosis. The lecture program will be flexible to allow for the incorporation of visiting speakers or for the introduction of a current interest topic. In addition to formal lectures the unit will offer tutorial and student seminar sessions.

Prerequisite: 72 Credit Points in Master of Health Science

Credit Points: 12 Contact Hours: 3 per week

MSN510 CLINICAL BIOCHEMISTRY I

Offered: Autumn

This subject is designed to emphasise the use of clinical biochemistry in the diagnosis of diseases. Disorders of fluid and electrolyte balance systems, disorders of the gastrointestinal, pancreatic and hepatobiliary systems, and disorders of the cardiovascular system and hypertension will be studied, concentrating on diagnosis and the interpretation of biochemical results. In addition, aspects of instrumentation and laboratory methods will be reviewed.

Prerequisite: 96 Credit Points in Master of Health Science

Credit Points: 12 Contact Hours: 3 per week

MSN511 HAEMATOLOGY I

Offered: Autumn

This subject studies in depth a number of haematologic diseases; their aetiology, laboratory investigation, pathogenesis, principles of treatment and laboratory monitoring. The study program includes seminars, oral presentations and assignments. Topics will be chosen from the following areas: haemopoeitic kinetics, haematologic oncology, haemolytic disease, haemostasis and the haematologic manipulations of systemic disease. Assessment will be by formal examination, assignments and seminar participation.

Prerequisite: 96 Credit Points in Master of Health Science

Credit Points: 12 Contact Hours: 3 per wcck

MSN512 HISTOPATHOLOGY I

Offered: Autumn

An in-depth review of recent advances and modem methods in diagnostic histopathology. Major topics will include immunohistochemistry, enzyme histochemistry and transmission electron microscopy methods. **Prerequisite:** 96 Credit Points in Master of Health

Prerequisite: 96 Credit Points in Master of Health Science

Credit Points: 12 Contact Hours: 3 per week

MSN515 MICROBIOLOGY I

Offered: Autumn

These courses will explore, in-depth, areas of bacteriology, virology, mycology and parasitology. Topics will be chosen to increase the knowledge and



understanding of microorganisms associated with human infection. Recent trends and developments in diagnostic microbiology will be studied. A critical approach to the assessment of laboratory practices and interpretation of data will be developed.

Prerequisite: 96 Credit Points in Master of Health Science,

Credit Points: 12 Contact Hours: 3 per week MSN530 DISSERTATION

Offered: Full year

The dissertation includes a supervised project in an approved topic area selected by the student. The project area may be novel, developmental or directed at an investigation of the introduction of a new system into the laboratory. Other areas which are considered appropriate include epidemiological analyses, laboratory safety, laboratory design or the efficacy of laboratory service. Each student will submit a written project report in a style to present the data,

Prerequisite: 96 Credit Points in Master of Health Science,

Credit Points: 12 Contact Hours: 3 per week

MSN610 CLINICAL BIOCHEMISTRY II Offered: Spring

This subject is designed to emphasise the use of clinical biochemistry in the diagnosis of diseases. Endocrinology, disorders of the muscular and skeletal systems, disorders of special groups, nutrition and drugs, neutrochemistry and neural disorders, cancer-associated biochemical abnormalities, and the seriously-ill patients will be studied, concentrating on diagnosis and the interpretation of biochemical results. Prerequisite: MSN510

Credit Points: 12 Contact Hours: 3 per week

MSN611 HAEMATOLOGY II

Offered: Spring

This unit has the same aims and objectives as for Haematology I. Topies considered in this unit include: age-related changes to the haemopoietic system, (perinatal haematology, paediatric haematology and haematology in the elderly), nutrition anaemias, the role of the forensic laboratory, transplantation, automation and quality control. Since outside lecturers participate in these specialist electives some; interchange of topics between the two units may be necessary.

Prerequisite: MSN511

Credit Points: 12 Contact Hours: 3 per week

🖾 MSN612 HISTOPATHOLOGY II

Offered: Spring

Investigate methods in diagnostic histopathology. The design and assessment of diagnostic programs to aid the identification of tumours and diseases of selected organ systems. A study of specialised techniques including aspiration cytology, scanning electron microscopy and analytical electron microscope methods.

Prerequisite: MSN512

Credit Points: 12 Contact Hours: 3 per week

MSN615 MICROBIOLOGY II

Offered: Spring

These courses will explore in-depth, areas of bacteriology, virology, mycology and parasitology. Topics will be chosen to increase the knowledge and understanding of microorganisms associated with human infection. Recent trends and developments in diagnostic microbiology will be studied. A critical approach to the assessment of laboratory practices and interpretation of data will be developed.

Prerequisite: MSN515

Credit Points: 12 Contact Hours: 3 per week

MSP104 ANALYTICAL ELECTRON 12 MICROSCOPY

Offered: Offered: Autumn

An advanced course in electron microscopy with emphasis on the applications of labelling and analytical techniques. Methods covered in lectures and practical sessions include immunocytochemistry, in situ hybridisation, energy and wavelength dispersive Xray analysis, electron energy loss spectroscopy and image analysis. Specialised preparation methods necessary for use of these techniques in SEM, TEM and STEM instruments are discussed, together with their advantages and limitations. Applications are drawn from the biological, materials and forensic science areas.

Credit Points: 10 Contact Hours: 5 per week

88 MSP105 MOLECULAR DIAGNOSIS OF DISEASE

Offered: Spring

This subject consists of a series of lectures and laboratory exercises in advanced molecular techniques of disease diagnosis. Included will be collection and preparation of samples; the use of DNA probes in dot blots, Southern blots and Northern blots, RFLP analysis and DNA fingerprinting; advanced immunological techniques such as Elisa and Western blotting.

Credit Points: 10 Contact Hours: 4 per week

MSP120 ADVANCED GENETIC ENGINEERING

Offered: Spring

An advanced course of lectures and practical exercises dealing with advanced techniques of recombinant technology. Topics include strategies used for gene cloning; production of cDNA and expression libraries; cloning in other bacterial, yeast, virus and plant vectors; isolation of mRNA; separation of chromosomes by electrophoresis; use of gene probes for disease diagnosis and differentiation; a sequencing as well as applications of genetic engineering in the areas of disease resistance, vaccines, hormones, food, plants and industrial microbiology. Credit Points: 10 Contact Hours: 6 per week

🖾 MSP121 RESEARCH STRATEGIES I

Offered: Autumn

This subject consists of a series of seminars presented by staff of the Faculties of Health Science and Science and other research scientists on research strategies and directions in their area of expertise. A series of tutorials and lectures on such topics as library searches, oral communications, written communications and ethics. Several written assignments in the areas of microbiology, biochemistry and biotechnology. A seminar presented by the student covering the background literature relevant to the student's research project.

Credit Points: 8 Contact Hours: 3 per week

MSP122 RESEARCH STRATEGIES II

Offered: Spring

This subject consists of a series of seminars presented staff of the Faculties of Health Science and bv. Science and other research scientists on research strategies and directions in their area of expertise. A series of lectures and tutorials on such topics as biometry and computer analysis, research strategies, applying for grants, photography for scientists. A seminar presented by the student covering the results obtained in the student's research project.

Credit Points: 8 Contact Hours: 3 per week



MSP123 READINGS IN BIOTECHNOLOGY I

Offered: Autumn

This subject consists of the preparation of a literature review of direct and associated relevance to the Honours Project (MSP125). The literature review, under the guidance of the supervisor(s), will include an "in-depth" computer search, the presentation of a written paper demonstrating a considerable knowledge, understanding and appreciation of the literature as well as a critical appraisal of future research requirements.

Credit Points: 8 Contact Hours: 3 per week

MSP124 READINGS IN BIOTECHNOLOGY II

Offered: Spring

This subject consists of the preparation of a paper reporting the methods and results of investigations in the Honours project (MSP125). The paper will also include an introduction, analysis and discussion of the project in a style and length deemed to be appropriate by the Head of Department. In the course of this subject students should relate their project work to published work already undertaken in the relevant field.

Credit Points: 8 Contact Hours: 3 per week

MSP125 PROJECT

Offered: Full Year

All students undertaking Honours in biotechnology, biochemistry or microbiology will be required to select and undertake, in consultation with a supervisor, a suitable project.

Credit Points: 5 Contact Hours: 9 per week

MSP126 ADVANCED GENETIC ENGINEERING II

Offered: Autumn

A course in advanced methods used in recombinant DNA technology. Topics will include isolation and cloning of genomic DNA, M13 and plasmid sequencing, DNA amplification and pulse field gel electrophoresis.

Credit Points: 10 Contact Hours: 5 per week

MSP127 TOPICS IN BIOTECHNOLOGY I

Offered: Autumn

This subject consists of invited lectures, departmental seminars and external public lectures or seminars in the area of biotechnology including both research and business topics.

Credit Points: 4 Contact Hours: 1 per week

MSP128 TOPICS IN BIOTECHNOLOGY II Offered: Spring

This subject is the second semester continuation of MSP127.

Credit Points: 2 Contact Hours: 1 per week

MSP145 PROJECT

Offered: Full Year

All students undertaking the Graduate Diploma in Biotechnology will be required to select, in consultation with their employer and an academic supervisor, a suitable research project. The aims of the project are that students, under supervision, should: participate in the selection of a suitable topic for investigation; conduct a literature search in the subject area; plan an experimental program which includes scheduling laboratory space, equipment and consumables; undertake work at the bench; record, assess and interpret the results; write a concise thesis in a standard form of presentation. Credit Points: 16 Contact Hours: 3 per week

MSP152 FOOD MICROBIOLOGY Offered: Autumn

An introduction to food borne pathogens, microbial spoilage of foods; preservation; fermentation; hygiene; microbiological standards.

Credit Points: 6 Contact Hours: 3 per week

NSB110 FOUNDATIONS OF NURSING PRACTICE I

Offered: Autumn

The processes underlying nursing practice; use of nursing framework to examine relationships amongst health, environment, individual and nurse; therapeutic nurse-client relationship.

Credit Points: 12 Contact Hours: 4 per week

INSBITT FOUNDATIONS OF NURSING PRACTICE II

Offered: Spring

Components of nursing role and associated functions; theoretical approaches to counselling, learning and teaching, management, research and change. Prerequisite: NSB110 Co-requisite: NSB112 Credit Points: 18 Contact Hours: 7 per week

NSB112 CLINICAL PRACTICE I

Offered: Spring

Application of theoretical concepts to the provision of nursing care in a clinical setting, based on content in year one of the course.

Co-requisite: NSB111 Credit Points: 6 Contact Hours: 40/1 week block

INSB120 NURSING IN SOCIAL SYSTEMS I Offered: Autumn

Concepts of environment and health, and their impact on health care; nursing as part of the health care system; development of nursing theory.

Credit Points: 9 Contact Hours: 3 per week

INSB130 PROFESSIONAL ASPECTS OF NURSING I

Offered: Spring

Use of professional framework to analyse nursing practice; international, national and State nursing organisations and authorities; legal and ethical aspects of practice.

Credit Points: 12 Contact Hours: 4 per week

NSB201 PRINCIPLES OF PATIENT CARE Offered: Autumn

This introductory unit emphasises the cthical, legal and clinical accountability of the radiographer for safe patient care. The subject aims to develop in radiography students an awareness of their responsibilities in protecting patients and promoting their well-being. **Credit Points: 4 Contact Hours: 2** per week

NSB210 THEORIES OF NURSING I

Offered: Autumn

Analysis of selected models of nursing; interrelationship between research and theory development; application of models/theories to health care settings. **Co-requisites:** NSB212, NSB240

Credit Points: 9 Contact Hours: 3 per week

SSB211 THEORIES OF NURSING II

Offered: Spring

Relationship of research and development of nursing theory; use of a nursing model for generating research problems; application of statistical principles to data analysis; preparation of research reports.

Prerequisite: NSB210 Co-requisite: MAB156 Credit Points: 9 Contact Hours: 3 per week



NSB212 CLINICAL PRACTICE II

Offered: Autumn

Use of a nursing model as a basis for giving nursing care; selection of setting (hospital or community) and clients according to developmental stage; emphasis on clinical, teaching and counselling components of nursing role.

Prerequisite: NSB112 Co-requisites: NSB210, NSB240 Credit Points: 6

Contact Hours: 40 hrs/1 wk block

NSB220 NURSING IN SOCIAL SYSTEMS II Offered: Autumn

Characteristics of Australian society - family, education systems, religion, economic and political order, race and ethnicity; implications for nursing practice. Prerequisite: NSB120

Credit Points: 9 Contact Hours: 3 per week

NSB230 PROFESSIONAL ASPECTS OF NURSING II

Offered: Spring

Factors promoting professional leadership in nursing - leadership theory, evaluation of practice, societal issues affecting practice; legislation related to health care delivery.

Prerequisite: NSB130

Credit Points: 12 Contact Hours: 4 per week

NSB240 NURSING PRACTICE I

Offered: Autumn

Extension of knowledge of theory and skills related to the clinical, teaching and counselling components of the nursing role; use of case studies for the assessment of individual needs according to stage of development.

Co-requisites: NSB212, NSB210

Credit Points: 18 Contact Hours: 8 per week

NSB241 NURSING PRACTICE II

Offered: Spring

Care co-ordinator, change agent and client advocate components of the nursing role - application of management principles to job assignment; documentation; co-operative interaction with other health professionals; application of principles of change; process of client advocacy. Prerequisite: NSB240

Credit Points: 15 Contact Hours: 6 per week

NSB250 PSYCHOSOCIAL ADAPTION

Offered: Autumn

Aetiological factors related to adaptive and maladaptive behaviour; assessment techniques to identify maladaption in health-related situations; nursing participation in therapeutic intervention.

Credit Points: 6 Contact Hours: 2 per week

NSB252 PATHOPHYSIOLOGY

Offered: Autumn

A study of selected pathophysiological states which represent major alteration in physiological functioning, occurring in each developmental phase.

Credit Points: 6 Contact Hours: 2 per week

NSD120 PERSPECTIVES FOR NURSING PRACTICE I

Offered: Autumn

Views nursing from a conceptual viewpoint, examines the roles of the nurse in the provision of health care. Distinguishes between the independent and interdependent functions of the nurse.

Credit Points: 3 Contact Hours: 2 per week

NSD121 CONCEPTS FOR NURSING PRACTICE I

Offered: Autumn

Addresses the relationship between the individual and health. Examines human needs/adaptation theory and related concepts. Introduces the concept of health promotion - maintenance.

Co-requisite: NSD122

Credit Points: 6 Contact Hours: 3 per week

NSD122 CLINICAL PRACTICE IA

Offered: Autumn

Focuses on the acquirement of knowledge and experience in interpersonal, problem solving and psychomotor skills. Experience takes place in the college laboratory and community placements. Credit Points: 9 Contact Hours: 8 per week

NSD123 CLINICAL PRACTICE IB Offered: Autumn

Provides experience in the application of concepts and principles addressed during semester. Focuses on the acquisition of a specific level of competence. Settings may include: kindergartens, schools, senior citizens centres and maternity units.

Co-requisite: NSD122 Credit Points: 9

Contact Hours: 120 hrs/3 wk block following semester

NSD220 PERSPECTIVES FOR NURSING PRACTICE II

Offered: Spring

Critiques health care in Australia. Analyses nursing in hospitals. Determines specific attributes of the nursing roles of elinicians and teacher.

Prerequisites: NSD120

Credit Points: 6 Contact Hours: 2 per week

NSD221 CONCEPTS FOR NURSING PRACTICE II

Offered: Spring

Addresses the concept of illness and the effect on individuals. Examines strategies to promote adaptation to illness/hospitalisation of individuals from each developmental stage. Focuses on health promotion maintenance, restoration, reorganisation. Prerequisite: NSD121 Co-requisite: NSD122

Credit Points: 6 Contact Hours: 3 per week

NSD222 CLINICAL PRACTICE HA

Offered: Spring

Focuses on the acquisition of knowledge and experience in interpersonal, problem solving and psychomotor skills. Experience takes place in the college laboratory and hospitals.

Credit Points: 9 Contact Hours: 8 per week

NSD223 CLINICAL PRACTICE IIB

Offered: Spring

Provides experience in the application of concepts and principles addressed during semester. Focuses on the acquisition of a specific level of competence. The setting will be hospitals.

Co-requisite: NSD222 Credit Points: 9

Contact Hours: 120 hrs/3 wk block following semester

NSD320 PERSPECTIVES FOR NURSING PRACTICE III

Offered: Autumn

Reviews the concept of the health care team. Addresses the roles of care co-ordinator and researcher. Prerequisite: NSD220

Credit Points: 6 Contact Hours: 2 per week



NSD321 CONCEPTS FOR NURSING PRACTICE III

Offered: Autumn

Addresses the effects of pathophysiology or psychopathology on human needs - respiratory, cardiovascular, fluid/electrolyte imbalance, surgical intervention. Examines strategies - independent and interdependent to promote health - maintenance, restoration reorganisation.

Prerequisite: NSD221 Co-requisite: NSD322 Credit Points: 6 Contact Hours: 3 per week

NSD322 CLINICAL PRACTICE IIIA

Offered: Autumn

Focuses on the acquisition of knowledge and experience in interpersonal, problem solving and psychomotor skills. Experience takes place in the college laboratory and hospitals.

Credit Points: 9 Contact Hours: 10 per week

NSD323 CLINICAL PRACTICE IIIB

Offered: Autumn

Provides experience in the application of concepts and principles addressed during semester. Focuses on the acquisition of a specific level of competence. The setting will be hospitals.

Co-requisite: NSD322 Credit Points: 9 Contact Hours: 120 hrs/3 wk block following semester

NSD420 PERSPECTIVES FOR NURSING PRACTICE IV

Offered: Spring

Concentrates on ethical aspects of nursing - theory and practice. Addresses the role of the nurse as client advocate. Prerequisite: NSD220

Credit Points: 6 Contact Hours: 2 per week

NSD421 CONCEPTS FOR NURSING PRACTICE IV

Offered: Spring

Addresses the effects of pathophysiology or psychopathology on human needs - urinary, gastro-intestinal. musculo-skeletal. Examines emergency/critical aspects of care. Examines strategies -independent and interdependent to promote health maintenance, restoration, reorganisation.

Prerequisite: NSD221 Co-requisite: NSD422 Credit Points: 6 Contact Hours: 3 per week

NSD422 CLINICAL PRACTICE IVA

Offered: Spring

Focuses on the acquisition of knowledge and experience in interpersonal, problem solving and psychomotor skills. Experience takes place in the college laboratory and hospitals.

Credit Points: 9 Contact Hours: 10 per week

NSD423 CLINICAL PRACTICE IVB

Offered: Spring

Provides experience in the application of concepts and principles addressed during semester. Focuses on the acquisition of a specific level of competence. The setting will be hospitals.

Co-requisite: NSD422 Credit Points: 9

Contact Hours: 120 hrs/3 wk block following semester

NSD520 PERSPECTIVES FOR NURSING PRACTICE V

Offered: Autumn

Addresses the concepts of the community and family as systems. Focuses on crises intervention as a therapeutic process. Examines the role of the nurse as counsellor.

Prerequisite: NSD220 Credit Points: 6 Contact Hours: 3 per week

SD521 CONCEPTS FOR NURSING

PRACTICE V

Offered: Autumn

Addresses the effects of pathophysiology or psychopathology on human needs - reproductive, neurological, psychiatric. Examines the childbearing experience. Examines strategies - independent and interdependent to promote health - maintenance, restoration, reorganisation.

Prerequisite: NSD221 Co-requisite: NSD522 Credit Points: 6 Contact Hours: 4 per week

NSD522 CLINICAL PRACTICE VA

Offered: Autumn

Focuses on the acquisition of knowledge and experience in interpersonal, problem solving and psychomotor skills. Experience takes place in the college lahoratory, community and hospital.

Credit Points: 9 Contact Hours: 15 per week

NSD523 CLINICAL PRACTICE VB

Offered: Autumn

Provides experience in the application of concepts and principles addressed during semester. Focuses on the acquisition of a specific level of competence. The setting will be the community, community agencies and hospitals.

Co-requisite: NSD522 Credit Points: 9

Contact Hours: 120 hrs/3 wk block following semester

NSD620 PERSPECTIVES FOR NURSING PRACTICE VI

Offered: Spring

Addresses nursing from a historical and contemporary perspective. Looks at such issues as the nurse as a professional, leadership and the expanding role of the professional nurse.

Prerequisite: NSD220

Credit Points: 6 Contact Hours: 3 per week

NSD621 CONCEPTS FOR NURSING PRACTICE VI

Offered: Spring

Addresses the effects of pathophysiology and psychopathology on human needs - integumentary, endoerine, oncologic, immunologic problems. Examines strategies - independent and interdependent to promote health - maintenance, restoration, reorganisation. Prerequisite: NSD221 Co-requisite: NSD622

Credit Points: 6 Contact Hours: 4 per week

NSD622 CLINICAL PRACTICE VIA

Offered: Spring

Focuses on the acquisition of knowledge and experience in interpersonal, problem solving and psychomotor skills. Experience takes place in the college laboratory, community and hospitals.

Credit Points: 9 Contact Hours: 15 per week

NSD623 CLINICAL PRACTICE VIB

Offered: Spring

Provides experience in the application of concepts and principles addressed during semester. Focuses on the acquisition of a specific level of competence. The setting will be the community, community agencies and hospitals.

Co-requisite: NSD622

Credit Points: 9 Contact Huurs: 120 per week



NSN102 CONCEPTS FOR ADVANCED CLINICAL NURSING

Offered: Autumn

In recent years there has been significant development in the role of the professional nurse as an advancedlevel planner and provider of care. At this level, it is expected that nurses show a high degree of competence with an independent problem solving approach to client care and are able to interact widely on intra-, inter- and extra- professional levels. Therefore, this subject is designed to enhance knowledge and skills involved in the selection, provision and communication of contemporary nursing care.

Credit Points: 12 Contact Hours: 3 per week

NSN103 RESEARCH METHODS IN NURSING

Offered: Autumn

This subject will provide opportunities for students to develop skills in research design and data collection processes related to clinical phenomena. The data analysis component will emphasise statistical techniques applicable to nursing research design.

Credit Points: 12 Contact Hours: 3 per week

NSN104 PROFESSIONAL ISSUES IN NURSING

Offered: Spring

This subject is designed to enable students to expand the concept of the social significance of nursing as well as analyse the profession's accountability and responsibility to health care at local, national and international levels. Major topics of study will include theoretical and ideological perspectives of professional regulation, nursing's approach to professionalisation and the involvement of national and international nursing organisations in health policy formulation. Students will be given the opportunity to consider the influence of other disciplines and the historical environment on the development of ideas in nursing theory.

Credit Points: 12 Contact Hours: 3 per week

NSN105 MEDICAL/SURGICAL NURSING I Offered: Spring

Advanced specialisation in medical-surgical nursing requires the ability to deal critically and effectively with particular clinical phenomena so that the health of the individual, family or community is promoted. This subject, which focuses on the individual as client, will provide opportunities for students to enhance previous clinical knowledge and skills so that excellence in nursing care may be realised.

Prerequisites: NSN101, NSN102

Credit Points: 12 Contact Hours: 3 per week

NSN106 MEDICAL/SURGICAL NURSING II Offered: Autumn (NSM253); Spring (HSN257-NRS) Advanced specialisation in medical-surgical nursing requires the ability to deal critically and effectively with particular clinical phenomena so that the health of the individual, family or community is promoted. This subject adds a family focus to that of the individual. It will provide opportunities for students to enhance previous clinical knowledge and skills so that excellence in nursing care may be realised.

Credit Points: 12 Contact Hours: 3 per week

NSN107 MEDICAL/SURGICAL NURSING III

Offered: Spring

Advanced specialisation in medical-surgical nursing requires the ability to deal critically and effectively with particular clinical phenomena so that the health of the individual, family or community is promoted. This subject adds a community focus to that of the individual and family. It will provide opportunities for students to enhance previous clinical knowledge and skills so that excellence in nursing care may be realised.

Credit Points: 12 Contact Hours: 3 per week

NSN108 PRIMARY HEALTH CARE NURSING I

Offered: Spring

Advanced specialisation in primary health care nursing requires the ability to critically analyse issues and trends affecting the health and lifestyle of individuals, families and communities. This subject focuses on the individual as client and provides the foundation for the primary health care nursing stream by exploring a broad range of factors which together define the parameters of primary health care practice.

Credit Pnints: 12 Contact Hours: 3 per week

NSN109 PRIMARY HEALTH CARE NURSING II

Offered: Spring (HSN257-NRS); Autumn (NSM253) Advanced specialisation in primary health care nursing requires the ability to critically analyse issues and trends affecting the health and lifestyle of individuals, families and communities. This subject focuses on the family as client and will provide opportunities to enhance previous clinical knowledge and skills through the application and evaluation of appropriate health education strategies,

Credit Points: 12 Contact Hours: 3 per week

NSN110 PRIMARY HEALTH CARE NURSING III

Offered: Spring

Advanced specialisation in primary health care nursing requires the ability to critically analyse issues and trends affecting the health and lifestyle of individuals, families and communities. This subject focuses on the community as client and will provide opportunities to enhance previous clinical knowledge and skills through the application and evaluation of appropriate health education strategies.

Credit Points: 12 Contact Hnurs: 3 per week

NSN111 PSYCHIATRIC/MENTAL HEALTH NURSING I

Offered: Spring

Advanced clinical practice in psychiatric-mental health nursing requires the ability to deal critically and effectively with interpersonal processes and strategic therapeutic use of self to restore, maintain, promote and prevent mental and psychiatric disability. Particular attention is given to interpersonal dynamics and behaviour as basic processes by which nursing assessment and intervention occur. This subject, which focuses on the individual as client, will provide opportunities to enhance previous clinical knowledge and skills through the application and testing of interpersonal theory and therapeutics.

Credit Points: 12 Contact Hours: 3 per week

NSN112 PSYCHIATRIC/MENTAL HEALTH NURSING II

Offered: Autumn (NSM253); Spring (HSN257-NRS) In this subject, particular attention is given to family dynamics and behaviour as basic processes by which nursing assessment and intervention occur. By focussing on the family as client, it will provide opportunities to enhance previous clinical knowledge and skills through the application and testing of family theory and therapeutics.

Credit Points: 12 Contact Hours: 3 per week



NSN113 PSYCHIATRIC/MENTAL HEALTH NURSING III

Offered: Spring

Particular attention is given to current trends and approaches to the organisation and delivery of mental health services within Australia with selected international comparisons.

Credit Points: 12 Contact Hours: 3 per week

NSN201 GRIEF & BEREAVEMENT

Offered: Spring

Advanced level clinical practice in any field of nursing requires the ability to deal effectively and sensitively with grieving and bereaved individuals and families. The purpose of such practice is two fold: to enable the dying to experience a dignified and peaceful death; and to assist with the grieving/bereaved individual's families' adaptation to the loss. This subject will provide opportunities for student to enhance previous clinical knowledge and skills so that excellence in nursing care may be realised when caring for grieving and bereaved individuals and families in hospital and community settings.

Credit Points: 6 Contact Hours: 1.5 per week

NSN202 NURSING & HEALTH EDUCATION PRACTICE

Offered: Spring

This elective unit of study introduces practising nurses to the theoretical perspectives of health education. Particular attention is given to the development, implementation and evaluation of health education programs which focus on specific needs of groups and/or communities.

Credit Points: 6 Contact Hours: 1.5 per week

SNSN203 HUMAN SEXUALITY & HEALTH Offered: Spring

Human sexuality remains a controversial and highly debated topic in Australian society. Although there is a growing awareness amongst nurses of the significance of human sexuality to patient care, many nurses suffer from the same paucity of information, myths and misconceptions about sexuality that afflict the broader community. Students undertaking this elective will have the opportunity to explore a subject of considerable complexity within a nursing context. **Credit Points:** 6 **Contact Hours:** 1.5 per week

NSN204 PAIN: A NURSING FOCUS

Offered: Spring

Pain is a universal experience which may cause individuals, together with their families, great distress. It is also a subjective, personal experience about which much is still being learnt and understood. This subject will provide opportunities for students to extend previous clinical knowledge and skills so that a contemporary and comprehensive approach to pain assessment and management may be initiated by the nurse.

Credit Points: 6 Contact Hours: 1.5 per week

NSN205 INDEPENDENT STUDY

Offered: Spring

The intention of this unit of study is to increase flexibility and provide the opportunity for indepth study in an approved area of study interest to meet the diverse needs and interest of practising Registered Nurses.

Credit Points: 6 Contact Hours: 1.5 per week

NSN301 ADVANCED NURSING EDUCATION I

Offered: Spring

This subject is designed to increase students' knowledge of the theoretical bases of teaching and learning in order to promote and facilitate learning. Students from various disciplines on campus can be accommodated within this subject. Students of nursing will focus on the professional practice of that discipline.

Credit Points: 12 Contact Hours: 3 per week

NSN302 ADVANCED NURSING EDUCATION II

Offered: Autumn

This subject will provide opportunities for students to view measurement and evaluation as essential components of sound educational decision making. Students from various disciplines on campus are able to be accommodated within this subject. Students of nursing will focus on the professional practice of that discipline. **Prerequisite:** NSN301

Credit Points: 12 Contact Hours: 3 per week

NSN303 ADVANCED NURSING EDUCATION III

Offered: Autumn

This subject will enable students to explore aspects of curriculum development which are relevant to their specific areas of interest. Students from various disciplines on campus are able to be accommodated with this subject. Students of nursing will focus on the professional practice of that discipline. Content will focus on perspectives, principal issues and theoretical approaches to curriculum assessment, planning implementation, evaluation and innovation.

Prerequisite: NSN301

Credit Points: 12 Contact Hours: 3 per week

NSN304 ADVANCED NURSING MANAGEMENT I

Offered: Spring

This unit will provide opportunities for students to examine the organisation context of nursing and health care from a number of theoretical perspectives and to enable them to contribute effectively to debate on the nature of nursing and health care organisation. Credit Points: 12 Contact Hours: 3 per week

NSN305 ADVANCED NURSING MANAGEMENT II

Offered: Autumn

This subject provides an opportunity for students to examine management processes of nursing divisions within health care organisations enabling them to have creative input into the nursing environment. Prerequisites: NSN301

Credit Points: 12 Contact Hours: 3 per week

NSN307 ADVANCED NURSING CLINICAL I

Offered: Spring

This subject allows the student to develop an advanced clinical nurse practice role. It focuses on the role of the advanced clinical nurse practitioner; and includes role creation/development including role theory, role application, role analysis and strategies for implementing role. Students will develop a conceptual framework for advanced clinical practice which will include but not be limited to: expert clinical practitioner advocate, change agent, professional role model, clinical teacher/mentor and motivator. **Prerequisite:** Clinical Specialisation III

Credit Points: 12 Contact Hours: 3 per week



NSN308 ADVANCED NURSING CLINICAL II Offered: Autumn

This subject allows the students to implement functions of the advanced clinical practice role. The content of this subject focuses on implementing the advanced clinical practice role in a selected area. It will provide experiences to strengthen clinical skill, knowledge and judgment.

Prerequisite: NSN301

Credit Points: 12 Contact Hours: 3 per week

NSN309 ADVANCED NURSING CLINICAL III Offered: Autumn

This subject is designed to develop knowledge and skill in the consultative function of the advanced clinical practitioner role. It also develops skill in the implementation of an innovative change utilising skills from leadership, innovation, and change theory. This subject examines consultation theory and practice in detail. The areas of study include a focus on relationship between the nurse consultant and the client, problems that can arise, planning intervention and evaluation of the consultative process.

Prerequisite: NSN301 Credit Points: 12 Contact Hours: 3 per week

NSN401 STRATEGIES FOR NURSING RESEARCH

Offered: Autumn

This subject introduces postgraduate students to the use and application of qualitative research techniques in nursing practice. The content will be selected from techniques such as participant observation and unstructured interviewing as well as qualitative approaches in nursing research such as phenomenology, grounded theory, ethnography and historical research.

Credit Points: 12 Contact Hours: 3 per week

NSN403 DISSERTATION

Offered: Autumn

The dissertation should be a substantive and original research study. It should provide evidence that the student has identified a significant problem, reviewed the relevant literature, developed appropriate methodology to collect and analyse data, implemented the study and presented the findings in a form consistent with school requirements.

Prerequisites: NSN401, MSN150

Credit Points: 24 Contact Hours: 6 per week

NSP171 PRINCIPLES OF EDUCATION

Offered: Autumn

Learning theories; the teaching process; readiness for learning; organisation of instruction - group and individual methods; teaching techniques; audio and visual aids; and place of evaluation in educational process. Practice of principles of education will be incorporated in the practice of diet therapy as students practise instructing patients on therapeutic diets.

Credit Points: 4 Contact Hours: 2 per week

OPB132 OPHTHALMIC OPTICS II

Offered: Spring

An introduction to ophthalmic optics. Optical properties of spherical and astigmatic lenses and of ophthalmic prisms. Bifocals, multifocals and special lens types. Ophthalmic lens materials and lens quality. The ophthalmic prescription, its interpretation and verification.

Prerequisite: PHB150 Co-requisite: PHB240 Credit Points: 12 Contact Hours: 4 per week

OPB312 VISUAL SCIENCE III

Offered: Autumn

The performance of the eye as an optical system is considered in the context of ocular aberrations, refractive errors and image formation and quality. An introduction to visual performance characteristics includes absolute and relative thresholds, dark and light adaptation and relative luminous efficiency curves. **Prerequisite:** PHB240 **Co-requisite:** PHB340 **Credit Points:** 14 **Contact Hours:** 5 per week

OPB401 OCULAR & REGIONAL ANATOMY

Offered: Spring

The gross anatomy of the head and neck region with particular reference to the central nervous system. The macroscopic and microscopic anatomy of the orbit, extraocular muscles, eyelids, lacrimal apparatus, cornea, conjunctiva, sclera, uveal tract, lens, retina, optic nerve, aqueous, vitreous and the neural pathways and vascular circulation subserving vision. Ocular embryology.

Prerequisite: PNB363

Co-requisites: PNB435; OPB412 Credit Points: 8 Contact Hours: 3 per week

OPB412 VISUAL SCIENCE IV

Offered: Spring

Visual performance is examined with respect to its spatial and temporal characteristics. Perceptual aspects of vision as well as binocular and colour vision performance characteristics are also included. **Prerequisites:** OPB312; PHB340

Co-requisite: OPB401

Credit Points: 14 Contact Hours: 5 per week

OPB504 OPHTHALMIC OPTICS V

Offered: Autumn

A continuation of OPB132 Ophthalmic Optics II, with emphasis on problems with spectacle lenses. The practical application of theory to ophthalmic dispensing in the laboratory.

Prerequisites: OPB132, PHB340

Credit Points: 6 Contact Hours: 4 per week

OPB505 CLINICAL OPTOMETRY V

Offered: Autumn

The clinical application of techniques learnt in OPB509 Optometry V (studied concurrently) in the management of patients presenting for eye examinations.

Prerequisite: OPB412

Co-requisites: OPB509, OPB508, OPB527 Credit Points: 8 Contact Hours: 4 per week

OPB508 OCULAR PHYSIOLOGY

Offered: Autumn

This course covers all aspects of ocular physiology including the vegetative physiology of various ocular structures, visual neurophysiology and an introduction to electrophysiological techniques. Prerequisites: OPB412, OPB401 Co-requisites: OPB503, OPB505, OPB527 Credit Points: 8 Contact Hours: 4 per week

OPB509 OPTOMETRY V

Offered: Autumn

The aim of this subject is to teach the theory and practice of clinical procedures which are used in routine eye examinations.

Prerequisites: OPB412

Co-requisite: OPB508, OPB505 Credit Points: 18 Contact Honrs: 9 per week



OPB527 DISEASES OF THE EYE V

Offered: Autumn

The detection, diagnosis, referral and management of ocular disease. General pathological considerations. The writing of reports, referral letters and referral procedures. The nature, actiology and management of congenital, developmental, dystrophic and degenerative anomalies of the external and internal ocular structures and ocular adnexae. The ocular manifestation of systemic discase including cardio-vascular, metabolic, endocrine, central nervous system and malnutritional disorders.

Prerequisites: PNB435, OPB401, MSB430 Co-requisites: OPB505, OPB508, OPB509 Credit Points: 8 Contact Hours: 3 per week

OPB605 CLINICAL OPTOMETRY VI

Offered: Spring

The continuation of OPB505 Clinical Optometry V. The clinical application of techniques learnt in OPB509 Optometry V and OPB609 Optometry VI (studied concurrently) in the management of patients presenting for eye examinations.

Prerequisites: OPB505

Co-requisites: OPB608, OPB609, OPB627

Contact Hours: 4 per week Credit Points: 8

OPB608 OCULAR PHARMACOLOGY

Offered: Spring

General pharmacological principles are presented as background to a study of pharmacological profiles of ophthalmic preparations; both diagnostic and topical therapeutic agents are considered. Particular emphasis is placed on those ophthalmic drugs used to facilitate an eye examination.

Prerequisites: OPB508, OPB509

Co-requisites: OPB605, OPB609, OPB627

Credit Points: 6 Contact Hours: 3 per week

OPB609 OPTOMETRY VI

Offered: Spring

This subject is a continuation of the theory and practice of routine and advanced clinical procedures which are used when conducting a complete eye examination. The areas covered include ocular photography, the management of binocular vision anomalies, methods of examining the visual fields and the measurement of intra-ocular pressure.

Prerequisites: OPB508, OPB509

Co-requisites: OPB608, OPB605

Credit Points: 16 Contact Hours: 8 per week

OPB617 CONTACT LENS STUDIES VI

Offered: Spring

This subject provides an introduction to the basic concepts of contact lens fitting. Areas covered include contact lens instrumentation, contact lens materials and designs, fitting and consultation techniques. The practical component of the subject focuses upon the fitting of contact lenses.

Prerequisites: OPB509, OPB505, OPB527 Co-requisites: OPB609, OPB605, OPB627 Credit Points: 6 Contact Hours: 2 per week

OPB627 DISEASES OF THE EYE VI Offered: Spring

A continuation of OPB527 Diseases of the Eye V. The anatomical, physiological and pathological aspects of glaucoma. Its symptomatology, methods of detection and diagnosis, management and prognosis. Inflammatory diseases, trauma and tumours of the external and internal ocular structures and ocular adnexae. Prerequisite: OPB527

Co-requisites: OPB605, OPB608, OPB609 Credit Points: 8 Contact Hours: 4 per week

OPB705 CLINICAL OPTOMETRY VII

Offered: Autumn

This is the clinical application of the procedures studied in OPB609 Optometry VI and OPB709 Optometry VII, and includes the management of patients in the clinical situation.

Prerequisite: OPB605 Co-requisites: OPB709, OPB717

Contact Hours: 13 Credit Points: 24

OPB709 OPTOMETRY VII

Offered: Autumn

This subject is a continuation of OPB609 Optometry VI and provides knowledge and understanding of the theory and clinical procedures involved in paediatric optometry, low vision, colour vision and aniseikonia. Prerequisite: OPB609 Co-requisite: OPB705

Contact Hours: 5 per week Credit Points: 10 OPB717 CONTACT LENS STUDIES VII

Offered: Autumn

A series of lectures and practical sessions in advanced aspects of contact lens practice. The subject includes topics such as the physiological consequences of contact lens wear, management of contact lens patients, and fitting of lenses for keratoconus, extended wear and presbyopia. Practical sessions provide training in advanced diagnostic and fitting techniques.

Prerequisite: OPB617 Co-requisite: OPB705, OPB709

Contact Hours: 2 per week Credit Points: 6

🖾 OPB750 PROJECT

Offered: Full year

Students are required to undertake project work in semester 7 and 8 of the course. Students work in groups of up to 3 on projects of their own choosing or on a topic chosen from a suggested list. Project topics must be original. Students conduct a literature search (including a computer based search in conjunction with a reference librarian). They decide on the experimental hypotheses, plan and execute the experiment, analyse the results and write a report in manuscript form which it is hoped will be suitable for publication in the open literature. Students are encouraged to seek assistance from staff members of the Department of Optometry and other Departments within the University. Oral presentations are given by each group to their peers, third year students and staff, as part of a formal semester 8 colloquium.

Co-requisites: OPB709, MAB258

Contact Hours: 3 per week Credit Points: 5

OPB803 OCCUPATIONAL/PUBLIC HEALTH OPTOMETRY

Offered: Spring

A course of study to introduce the basic concepts of eye safety and visual ergonomics. Content will include eye safety programs, occupational vision screening, legal aspects of eye safety, eye hazards traumatic, radiation and chemical, eye protection, visual ergonomics and illumination engineering. Prerequisite: OPB709 Co-requisite: OPB805

Credit Points: 6 Contact Hours: 2 per week

OPB805 CLINICAL OPTOMETRY VIII Offered: Spring

A continuation of OPB705 Clinical Optometry VII. This subject places emphasis on the students decision



making skills in the evaluation, care and treatment of patients who may have a wide range of visual disorders. Prerequisites: OPB705, OPB717

Co-requisite: OPB803

Credit Points: 32 Contact Hours: 17 per week

PHA154 INTRODUCTORY PHYSICS

Offered: Autumn

An introduction to the basic concepts involved in the study of linear mechanics, ideal gases, liquids and solids, elasticity, surface tension, temperature and its measurements, heat content, heat transfer, reflection and refraction of light at plane surfaces, use of lenses in simple optical instruments, current electricity, e.m.f. resistance, circuit analysis, heating effect, electrical measurements using moving coil galvanometers, potentiometers and Wheatstone bridge, magnetic field with simple applications. A series of laboratory experiments emphasises the above concepts.

Credit Points: 8 Contact Hours: 3 per week

PHB104 INTRODUCTORY PHYSICS

Offered: Autumn

This subject is intended to give the student a grounding in basic physics topics selected from the following areas: mechanics, heat, electricity, and magnetism and light.

Credit Points: 6 Contact Hours: 3 per week Note: This subject is not compatible with Senior Physics.

PHB110 PHYSICS IA

Offered: Autumn

A course of lectures, tutorials and laboratory work covering dynamics, fluid mechanics, mechanical properties of matter, gravitation and geometrical optics. Co-requisite: PHB 104 unless Senior physics has been undertaken.

Credit Points: 8 Contact Hours: 3 per week

PHB111 PHYSICS IB

Offered: Autumn

A course of lectures and laboratory work on a.c. and d.c. circuit theory, electronics, vibrations and waves, sound. Co-requisite: PHB104 unless Senior Physics has been undertaken.

Credit Points: 8 Contact Hours: 3 per week

PHB132 ENGINEERING PHYSICS IA

Offered: Autumn

A basic subject in the physics of waves and optics; including moving and stationary waves in various media, interference of waves, beats acoustics and shock waves and measurement of sound; geometrical and physical optics including reflection, refraction, dispersion, interference and diffraction, polarisation, optical instruments, design and resolution, and photometry.

Credit Points: 6 Contact Hours: 3 per week

PHB170 PHYSICS FOR SURVEYORS Offered: Autumn

Mechanics. Geometrical optics. Physical optics. Quantum optics. Physics of materials. Physics of the lower atmosphere. Sound. Electromagnetic fields, Electronics.

Credit Points: 12 Contact Hours: 6 per week PHB178 PRINCIPLES OF MEDICAL

RADIATIONS Offered: Autumn

An introduction to the principles of medical imaging and to the methods of detection, diagnosis and treatment of cancer.

Credit Points: 10 Contact Hours: 5 per week

PHB210 PHYSICS IIA

Offered: Spring

A course of tutorials, lectures and laboratory work on thermal physics and electromagnetic fields.

Prerequisite: PHB104 or Senior physics Contact Hours: 3 per week

Credit Points: 8

PHB211 PHYSICS IIB

Offered: Spring

A course of lectures and laboratory work on physical optics, and modern and radiation physics.

Prerequisite: PHB104 or Senior physics

Credit Points: 8 Contact Hours: 3 per week

PHB232 ENGINEERING PHYSICS HA Offered: Spring

A basic subject in the physics of heat and properties of matter; including the kinetic theory of gases, temperature scales and thermometers, heat and heat measurement, thermodynamics and the molecular properties of matter; gravitational fields; basic radiation physics.

Prerequisite: PHB132

Credit Points: 6 Contact Hours: 3 per week PHB260 PHYSICS HG

Offered: Spring

A course of lectures and tutorials in thermal physics. electrostatics, magnetostatics, electromagnetic fields and waves, quantum physics, nuclear and radiation physics.

Credit Points: 8 Contact Hours: 4 per week PHB272 RADIATION PHYSICS I

Offered: Spring

A course of lectures and practical sessions on electrostatics, electromagnetism, the production of X-rays and their interaction with matter.

Credit Points: 12 Contact Hours: 5 per week PHB275 PROCESSING TECHNOLOGY

Offered: Spring A study of the processes involved in the production of

a visible image in radiography, including: latent image formation, processing, techniques and equipment relevant to radiography.

Credit Points: 4 Contact Hours: 2 per week PHB276 GENERAL RADIOGRAPHY I

Offered: Spring

A program of lectures and practical sessions relating to radiography of the skeletal system.

Prerequisite: PHB173 or PNB125

Co-requisite: PNB225

Credit Points: 14 Contact Hours: 7 per week PHB279 CLINICAL RADIOGRAPHY I

Offered: Spring

Practical programs carried out in approved clinical departments. Specific experiences relate to topics introduced in PHB276.

Prerequisite: as for PHB310

Credit Points: 4 Contact Hours: 2 per week

🖾 PHB286 TREATMENT PLANNING I Offered: Spring

An introduction to the techniques of radiotherapy treatment planning.

Credit Points: 6 Contact Hours: 3 per week

PHB287 RADIOTHERAPY TECHNIQUE I Offered: Spring

An introduction to the basic techniques of radiotherapy including beam direction and defining devices, modification of beam and dosimetry Prerequisite: PHB183 Co-requisite: PNB225

Credit Points: 12 Contact Hours: 6 per week



PHB289 CLINICAL RADIOTHERAPY I

Offered: Spring

Practical programs carried out in approved clinical departments. Specific experiences relate to topics introduced in PHB287.

Credit Points: 4 Contact Hours: 2 per week

PHB308 ELECTRONICS 1

Offered: Autumn

A program of lectures and laboratory work covering basic measurement techniques and instrumentation, solid state components such as diodes, transistors, FETs and optoelectronics, feedback theory and applications.

Prerequisite: 2 semesters tertiary study (PHB111 preferred)

Credit Points: 8 Contact Hours: 3 per week

PHB310 WAVE THEORY & A.C. CIRCUITS

Offered: Autumn

A course of lectures and tutorials on undamped and damped oscillations, forced oscillations, coupled oscillations, wave transmission and reflection, examples of wave systems, a.c. network analysis, resonance, transformers, bridges.

Prerequisite: At least three of PHB110, PHB111, PHB210, PHB211 and at least two of MAB211, MAB224, MAB225

Co-requisite: MAB411 is recommended Credit Points: 8 Contact Hours: 3 per week

PHB311 OPTICS & ACOUSTICS

Offered: Autumn

A course of lectures and tutorials on interference and diffraction, Fourier methods, coherence and correlation, lasers and holography, sound waves, loudspeakers and microphones, acoustic properties of materials, architectural acoustics and measurement of noise.

Prerequisite: as for PHB310

Credit Points: 8 Contact Hours: 3 per week

PHB312 PHYSICAL PROPERTIES OF MATERIALS

Offered: Autumn

Forces between atoms and the condensed state. Properties of fluids - static and dynamic. Metallic, organic and ceramic phases and their properties. Perfect and imperfect structures. Mechanisms of deformation on a macroscopic and microscopic scale including diffusion, elastic and plastic characteristics, crecp and fatigue. Reactions and modifications of phase properties, reaction rates.

Prerequisite: PHB110 + PHB210

Credit Points: 8 Contact Hours: 3 per week

PHB316 EXPERIMENTAL PHYSICS III Offered: Autumn

This course is designed to further the education of students in the field of experimental physics. They are exposed to activities including laboratory experiments in electricity and magnetism, acoustics, optics and materials physics.

Prerequisite: At least three of PHB110, PHB111, PHB210, PHB211

Co-requisite: At least one of PHB310, PHB311 Credit Points: 8 Contact Hours: 3 per week

PHB373 NUCLEAR MEDICINE IMAGING I Offered: Autumn

A course of lectures on the principles, equipment and applications of nuclear medicine imaging.

Credit Points: 4 Contact Hours: 2 per week

PHB374 RADIOGRAPHIC EQUIPMENT I Offered: Autumn

Detailed discussion of design considerations of X-ray generators and equipment used for control of beam direction.

Credit Points: 6 Contact Hours: 3 per week

PHB376 GENERAL RADIOGRAPHY II Offered: Autumn

An extension of topics introduced in PHB276 to include more advanced techniques of skeletal radiography, ward and operating theatre radiography, and examinations utilising contrast media. **Prerequisite:** PHB276 + PHB279 + PNB225

Credit Points: 12 Contact Hours: 5 per week

PHB379 CLINICAL RADIOGRAPHY II

Offered: Autumn

Clinical experiences in radiographic examinations introduced in PHB276 and PHB376. Experience is obtained in approved clinical departments. **Prerequisite:** PHB276 + PHB279 + PNB225 **Credit Points:** 10 **Contact Hours:** 5 per week

PHB382 RADIOTHERAPY PHYSICS I

Offered: Autumn

A study of the design, physical aspects and operating characteristics of megavoltage and telecurie units. **Prerequisite:** PHB272

Credit Points: 4 Contact Hours: 2 per week

PHB386 TREATMENT PLANNING II Offered: Autumn

An extension of the study of treatment planning introduced in PHB286 to the planning of complex techniques of photon therapy. The planning of electron therapy.

Credit Points: 4 Contact Honrs: 2 per week

PHB387 MEGAVOLTAGE THERAPY I

Offered: Autumn

A series of lectures and practical exercises on the principles and applications of megavoltage therapy including techniques for specific sites. **Prerequisite:** PHB287 + PNB225

Credit Points: 14 Contact Hours: 6 per week

🔟 PHB389 CLINICAL RADIOTHERAPY II

Offered: Autumn Practical exercises in megavollage therapy related to topics introduced in PHB287 and PHB387. The programs are carried out in approved clinical departments. Prerequisites: PHB289, PNB225 Co-requisite: PHB387 Credit Points: 10 Contact Hours: 5 per week

PHB401 THERMAL & VACUUM PHYSICS

Offered: Spring A study of statistical mechanics, thermodynamics and vacuum physics.

Prerequisite: as for PHB310

Credit Points: 8 Contact Hours: 3 per week

PHB402 RELATIVITY & RADIATION PHYSICS

Offered: Spring

A study of relativity and particle physics. **Prerequisite:** as for PHB310 Cradit Bointy 8 Contrast Houses 2 page

Credit Points: 8 Contact Hours: 3 per week

PHB405 INSTRUMENTATION Offered: Spring

A course of lectures, laboratory work and field trips on instrumentation systems, transducers, signal



processing, telemetry, control systems, display and recording systems.

Prerequisite: PHB308

Contact Hours: 3 per week Credit Points: 8

PNB406 ADVANCED ORTHOSES

Offered: Autumn

This subject is designed to demonstrate a broad knowledge of orthotic and prosthetic devices as applicable to podiatric practice. The student will be required to display a high standard of practical skills in producing a range of orthoses e.g., butt edge seams, latex bandage technique, rubber butter devices, expandable foams, latex dipped devices, and specialised thermoplastic, display a high standard of practical skills in producing a range of orthoses for specialised patients c.g., partial or complete forefoot amputees, diabetics, arthritic conditions, post operative patients. Prerequisites: PNB506, PNB503

Co-requisites: PNB603

Credit Points: 6 Contact Hours: 3 per week

PHB408 ELECTRONICS II

Offered: Spring

A program of lectures and laboratory work covering radio-frequency circuits, noise, analogue integrated circuits and applications, digital circuitry, counters, shift registers, A-D and D-A conversion.

Prerequisite: PHB308

Credit Points: 8 Contact Hours: 3 per week

PHB411 ASTRONOMY

Offered: Spring

An introduction to the theory and practice of observational astronomy: astronomical coordinate systems, time systems, celestial mechanics and gravitation, stellar measurements. Other topics may include the planets and the solar system in general, stellar spectra, formation and evolution, the structure of the universe, and cosmology. The subject will include practical exercises, and observing sessions as weather permits. Prerequisite: any three of PHB110, PHB111, PHB210, PHB211

Credit Points: 8 Contact Hours: 3 per week

PHB416 EXPERIMENTAL PHYSICS IV

Offered: Spring

This unit consists of an extension of the laboratory program of PHB316 together with experimental radiation physics and a project performed either individually or in a small group. The project occupies approximately six weeks.

Prerequisite: PHB316

Co-requisite: at least one of PHB401, PHB402 Credit Points: 12 Contact Hours: 6 per week

PHB471 RADIATION PHYSICS II

Offered: Spring

A study of the philosophy and protocol of radiation protection. The question of protection is treated in a manner which brings into perspective the details of protection dealt with in other units of the course. Credit Points: 4 Contact Hours: 2 per week

PHB473 MEDICAL ULTRASOUND Offered: Spring

A course of lectures and practical exercises on the physical principles and application of ultrasound. Credit Points: 4 Contact Hours: 2 per week

PHB474 RADIOGRAPHIC EQUIPMENT II

Offered: Spring

A study of the equipment used in specialised radiography; including mobiles, tomographic units, skull tables and mammography units.

Credit Points: 4 Contact Hours: 2 per week

PHB475 MEDICAL RADIATION COMPUTING I

Offered: Spring

An introduction to the capabilities of computer hardware and software, and image processing. Credit Points: 8 Contact Hours: 3 per week

PHB476 SPECIAL PROCEDURES

Offered: Spring

A course of lectures and practical exercises on specialised techniques of radiography, including the skull, obstetrics, gynaccology, CNS and pacdiatric radiography.

Prerequisites: PHB376 + PHB379 Credit Points: 8 Contact Hours: 3 per week

PHB479 CLINICAL RADIOGRAPHY III

Offered: Spring

Clinical experience in approved departments in radiographic examinations discussed in PHB376. Prerequisites: PHB376 + PHB379 Credit Points: 8 Contact Hours: 3 per week

PHB481 DOSIMETRY

Offered: Spring A study of the measurement and dosimetry of external beam X-ray and gamma ray radiotherapy. Credit Points: 6 Contact Hours: 3 per week

PHB482 RADIOTHERAPY PHYSICS II Offered: Spring

A study of radioactivity including methods of radiation detection, radioactive equilibrium and production of radioisotopes, the principles of brachytherapy. Prerequisite: PHB382

Credit Points: 6 Contact Hours: 3 per week

PHB484 PRINCIPLES OF TREATMENT I Offered: Spring

A course of lectures on the principles underlying the choice of treatment of cancer in specific sites including consideration of associated treatment. Contact Hours: 3 per week Credit Points: 6

PHB487 MEGAVOLTAGE THERAPY II

Offered: Spring

An extension of the topic introduced in PHB387 to include the full range of treatment by megavoltage therapy for cancer in specific sites. Consideration includes techniques, planning, patient positioning, outlines and measurements.

Prerequisites: PHB387 + PHB389 Credit Points: 10 Contact Hours: 4 per week

PHB489 CLINICAL RADIOTHERAPY III

Offered: Spring Clinical experiences in approved departments in techniques of megavoltage therapy. Prerequisites: PHB389 + PHB387 Co-requisite: PHB487 Credit Points: 8 Contact Hours: 3 per week



PHB501 APPLIED QUANTUM MECHANICS

Offered: Autumn

A course of lectures on quantum mechanics and theory of spectra.

Prerequisites: PHB310(R)* + MAB411 and MAB412

Credit Points: 8 Contact Hours: 3 per week

PHB502 ELECTROMAGNETIC FIELD THEORY

Offered: Autumn

A course of lectures on electromagnetic field theory. Includes static field theory, wave equation, plane and spherical wave solutions, properties of plane waves, reflection, refraction, wave guides, cavity resonators and radiation theory.

Prerequisites: PHB310(R)* + MAB411 + MAB412 Credit Points: 8 Contact Hours: 3 per week

PHB508 ELECTRONICS III

Offered: Autumn

A program of lectures and laboratory work covering microprocessor fundamentals and interfacing to computers, displays and instrumentation. Design of microprocessor controlled data collection and analysis systems.

Prerequisite: PHB408

Credit Points: 8 Contact Hours: 3 per week

PHB510 PHYSICAL METHODS OF ANALYSIS I

Offered: Autumn

A course of lectures and associated practical work on a range of physical techniques of analysis, including for example X-ray diffraction and fluorescence, electron microscopy, neutron activation analysis, electron microprobe analysis. Emphasis is on the physical principle, instrumentation and nature of information available from each techniques. Industrial visits may be included.

Prerequisite: PHB312

Credit Points: 8 Contact Hours: 3 per week

PHB516 EXPERIMENTAL PHYSICS V

Offered: Autumn

Laboratory and field work in applied physics with emphasis on open ended experiments with modern equipment. Field trips may be necessary.

Prerequisite: PHB416

Co-requisite: at least one of PHB501, PHB502 Credit Points: 12 Contact Hours: 6 per week

PHB572 IMAGE RECORDING & EVALUATION

Offered: Autumn

A course of lectures and practical exercises on nonfilm image formation evaluation. Information theory. Credit Points: 4 Contact Hours: 2 per week

PHB573 DIGITAL IMAGING MODALITIES Offered: Autumn

A study of the principles, methods and applications of CT, digital radiography and MRI in medical imaging. Credit Points: 6 Contact Hours: 2 per week

PHB574 QUALITY ASSURANCE IN MEDICAL IMAGING

Offered: Autumn

A study of the principles and techniques used in the quality assurance of medical imaging apparatus and ancillary equipment.

Credit Points: 6 **Contact Hours:** 3 per week * See note, page 374.

PHB575 MEDICAL RADIATIONS COMPUTING II

Offered: Autumn

A course of lectures and practical exercises related to the applications of computers in image processing and radiotherapy.

Credit Points: 8 Contact Hours: 3 per week

PHB576 ADVANCED RADIOGRAPHIC TECHNIQUE I

Offered: Autumn

A study of the principles and techniques used in advanced radiographic techniques including angiography, the salivary glands, arthrography, sinography, the lacrimal system, arteriography and venography. **Prerequisites:** PHB476 + PHB479

Co-requisite: PHB578

Credit Points: 12 Contact Hours: 6 per week

Offered: Autumn

A course of lectures and practical exercises on image interpretation. Including: technical and diagnostic quality.

Credit Points: 4 Contact Hours: 2 per week

PHB579 CLINICAL RADIOGRAPHY IV

Offered: Autumn

Clinical experience in special radiographic procedures as introduced in PHB476.

Prerequisites: PHB476, PHB479

Credit Points: 8 Contact Hours: 4 per week

PHB583 COMPLEMENTARY & EVOLVING TECHNIQUES

Offered: Autumn

A course of lectures on the principles, strengths and stage of development of techniques which are complementary to radiotherapy treatment of cancer, Including: hyperbaric 0₂ therapy, neutron therapy, pi-meson therapy, chemotherapy, cryotherapy and hyperthermia.

Credit Points: 6 Contact Hours: 3 per week

PHB584 PRINCIPLES OF TREATMENT II Offered: Autumn

A continuation of the detailed discussion started in PHB484 to include the principles of treatment of cancer in all sites, and benign diseases.

Credit Points: 4 Contact Hours: 2 per week

PHB585 COMPUTER ASSISTED TREATMENT PLANNING I

Offered: Autumn

A study of planning hardware and software to include two dimensional planning. Development of concepts to an advanced level of understanding of computer assisted optimisation of isodose distributions. Credit Points: 8 Contact Hours: 3 per week

PHB587 ORTHOVOLTAGE & SUPERFICIAL THERAPY

Offered: Autumn

A course of lectures and practical exercises on the specialised techniques of orthovoltage and superficial radiotherapy.

Prerequisites: PHB489 + PHB487

Credit Points: 10 Cnntact Hours: 4 per week PHB589 CLINICAL RADIOTHERAPY IV

Offered: Autumn

Clinical experience in the techniques of radiotherapy employing orthovoltage and superficial therapy. Prerequisites: PHB489 + PHB487

Co-requisite: PHB587

Credit Points: 12 Contact Hours: 6 per week



PHB601 SOLID STATE PHYSICS

Offered: Spring

A course of lectures on the physics of materials, including mechanical, thermal and electrical properties. Prerequisites: PHB401 + PHB501 + PHB312

Credit Points: 8 Contact Hours: 3 per week

PHB602 NUCLEAR PHYSICS & ENERGY Offered: Spring

A course of lectures on applied nuclear physics, neutron physics, reactor technology and energy. Prerequisite: PHB402

Credit Points: 8 Contact Hours: 3 per week

PHB608 APPLIED ACOUSTICS

Offered: Spring

A course of lectures and associated practical work. Standards, principles of methods and instrumentation used in vibration, noise and sound measurements with emphasis upon architectural acoustics and traffic, industrial and community noise. Brief treatment of underwater acoustics and recording and reproduction of sound. Legal and technical aspects of professional practice. Field trips.

Prerequisite: PHB311

Credit Points: 8 Contact Hours: 3 per week

PHB609 APPLIED RADIATION PHYSICS

Offered: Spring

A course of lectures and associated laboratory work covering special techniques of radiation counting and applications, health physics, radiation protection, and radiobiological effects.

Prerequisite: PHB402

Credit Points: 8 Contact Hours: 3 per week

PHB613 BIOPHYSICS

Offered: Spring

A course dealing with the biophysics of selected biological systems (e.g., electrical transmission systems, amplifiers, mechanical systems, molecular behaviours in fields) and instrumentation for intercellular and inter-organ measurements (micro-electronics, transducers, etc.).

Prerequisites: At least 24 credit points in first level physics subjects and successful completion of at least 80 credit points of second level subjects.

Credit Points: 8 Contact Hours: 3 per week

PHB616 PROJECT

Offered: Autumn, Spring

A supervised project on some aspect of applied physics which could involve the extension and application of existing techniques or the development of new techniques.

Prerequisite: PHB516

Co-requisite: At least one third level physics unit Credit Points: 16 Contact Hours: 6 per week

PHB620 TOPICS IN PHYSICS

Offered: Spring

Lectures, laboratory work and industrial visits in several topics relating to current advances in physics. The nature of the subject is dependent on departmental and staff activities at the time.

Prerequisite: At least 32 credit points in second level physics subjects.

Credit Points: 8 Contact Hours: 3 per week

PHB671 RADIATION BIOLOGY

Offered: Spring

A study of the biological effects on ionising and non-ionising radiation.

Credit Points: 4 Contact Hours: 2 per week

PHB672 PROJECT

Offered: Spring

A supervised project involving either application of existing theoretical practical knowledge or a literature survey of a selected relevant topic.

Credit Points: 8 Contact Hours: 3 per week PHB676 ADVANCED RADIOGRAPHIC **TECHNIQUE II**

Offered: Spring

An extension of topies in advanced radiographic technique as introduced in PHB576 - to include mammography, digital imaging techniques, technique for examination of the lymphatic system, and emerging techniques.

Prerequisites: PHB576 + PHB579

Co-requisite: PHB678

Credit Points: 8 Contact Hours: 3 per week 🔳 PHB679 CLINICAL RADIOGRAPHY V

Offered: Spring

Clinical experience in advanced radiographic techniques introduced in PHB576.

Prerequisites: PHB576 + PHB579

Credit Points: 14 Contact Hours: 6 per week

PHB680 NUCLEAR MEDICINE IMAGING II Offered: Spring

A course of lectures, practical exercises and clinical

experiences in nuclear medicine imaging. This subject expands on topics introduced in PHB373 and provides an in-depth study of nuclear medicine imaging techniques.

Prerequisite: PHB373

Credit Points: 10 Contact Hours: 5 per week 1

PHB681 COMPUTED TOMOGRAPHY IMAGING

Offered: Spring

A course of lectures, practical exercises and clinical experiences in CT imaging. This subject expands on topics introduced in PHB573 and provides an in-depth study of CT imaging techniques.

Prerequisite: PHB573

Credit Points: 10 Contact Hours: 5 per week

PHB683 ONCOLOGICAL IMAGING

Offered: Spring

A study of the principles and techniques of medical imaging used in the detection of cancer. Including CT, MRĬ, Ú/S and NM.

Credit Points: 6 Contact Hours: 3 per week PHB685 COMPUTER ASSISTED TREATMENT PLANNING II

Offered: Spring

A course of lectures and practical exercises in the use of computers in the planning of non-standard and complex radiotherapy treatment. Including arc and rotation techniques, irregular field techniques, 3-D plans.

Contact Hours: 4 per week Credit Points: 8 PHB687 SPECIALISED RADIOTHERAPY TECHNIQUE

Offered: Spring

A study of specialised radiotherapy techniques. Including techniques applicable to the child patient, and patients with communicable disease, theatre procedures, total body photon and electron therapy. Credit Points: 10 Contact Hours: 4 per Contact Hours: 4 per week

📓 PHB689 CLINICAL RADIOTHERAPY V

Offered: Spring Clinical experience in specialised radiotherapy treat-

ment techniques.

Prerequisite: PHB589 Co-requisite: PHB687 Credit Points: 8 Contact Hours: 4 per week



PHD471 RADIOBIOLOGY & PROTECTION

Offered: Spring

This unit treats aspects of radiobiology necessary for an appreciation of the philosophy and protocol of radiation protection. The question of protection is treated in a manner which brings into perspective the many details of protection dealt with throughout other units of the diagnostic radiography course.

Credit Points: 4 Contact Hours: 2 per week

PHD572 COMPLEMENTARY IMAGING TECHNIQUES

Offered: Autumn

This unit treats a number of topics which are complementary to diagnostic radiography and others in the fields of image presentation and evaluation, which are of potential importance in diagnostic radiography. Includes CT, MRI, nuclear medicine and computers. Credit Points: 8 Contact Hours: 4 per week

PHD573 RADIOGRAPHIC TECHNIQUE III Offered: Autumn

This section amplifies PHD473 in relation to the more extensive preparation and techniques for specialised radiographic procedures.

Prerequisites: PHD473, PHD477

Credit Points: 6 Contact Hours: 3 per week

PHD574 RADIOGRAPHIC EQUIPMENT III Offered: Autumn

This unit covers the technology of X-ray equipment and its correct use in advanced radiographic techniques. Quality control and fault conditions. Prerequisite: PHD474

Credit Points: 6 Contact Hours: 3 per week

PHD577 CLINICAL PRACTICE HID

Offered: Autumn

Practical programs carried out in approved clinical training centres under the supervision of qualified radiographers and radiologists. Detailed programs for each semester are specified by a Clinical Practice Supervisory Committee.

Prerequisites: PHD473, PHD477

Credit Points: 16 Contact Hours: 10 per week

PHD580 COMPLEMENTARY & EVOLVING TECHNIQUES I

Offered: Autumn

Consideration of specific imaging modalities used in treatment planning or cancer diagnosis.

Credit Points: 8 Contact Hours: 4 per week

PHD586 RADIOTHERAPY PRACTICE V

Offered: Autumn

This unit covers details of techniques and procedures used in treatment with emphasis on practical considerations.

Prerequisites: PHD485, PHD486

Credit Points: 6 Contact Hours: 3 per week

PHD587 CLINICAL PRACTICE IVT

Offered: Autumn

Practical programs carried out in approved clinical training centres under the supervision of qualified radiographers and radiation oncologists. Detailed programs for each semester are specified by a Clinical Practice Supervisory Committee.

Prerequisite: PHD487

Credit Points: 30 Contact Hours: 13 per week

PHD610 ADVANCED RADIOGRAPHIC TECHNIQUE

Offered: Spring

Assignments must be submitted on topics specified with the areas of modern trends in X-radiographic technique; computerised tomography scanners; digital radiography; nuclear medicine imaging apparatus and other complementary imaging modalitics. No formal lecture classes are required.

Credit Points: 4 Contact Hours: 2 per week

PHD677 CLINICAL PRACTICE IVD

Offered: Spring

Practical programs carried out in approved clinical training centres under the supervision of qualified radiographers and radiologists. Detailed programs for each semester are specified by a Clinical Practice Supervisory Committee.

Prerequisites: PHD573 and PHD577

Credit Points: 44 Contact Hours: 16 per week

PHD680 COMPLEMENTARY & EVOLVING TECHNIQUES II

Offered: Spring

Applications of the computer to radiotherapy planning. Consideration of the principles and merits of evolving techniques.

Credit Points: 6 Contact Hours: 3 per week

PHD687 CLINICAL PRACTICE VT

Offered: Spring

Practical programs carried out in approved clinical training centres under the supervision of qualified radiographers and radiation oncologists. Detailed programs for each semester are specified by a Clinical Practice Supervisory Committee.

Prerequisite: PHD587

Credit Points: 22 Contact Hours: 16 per week

PHN101 ANALOGUE ELECTRONICS

Offered: Autumn

Principles of electronics applicable in the medical field; discrete circuits and integrated circuits in common use - design and limitations.

Credit Points: 6 Contact Hours: 2 per week

PHN102 INTRODUCTION TO MEDICAL STATISTICS COMPUTING

Offered: Autumn

Basic concepts of computing systems, programming, software engineering, introduction to medical applications. Medical applications of numerical methods and medical statistics.

Credit Points: 6 Contact Hours: 2 per week

PHN103 RADIATION PHYSICS I

Offered: Autumn

Study of the basic principles of radioactivity and radioactive decay and the interactions of ionising radiation with matter.

Credit Points: 6 Contact Hours: 2 per week

PHN104 RADIATION PHYSICS II

Offered: Autumn

Deals with phenomena related to interaction of ionising radiation with biological tissue. Emphasis on aspects of actual or potential importance in a clinical environment. Isotope production, nuclear radiation detectors.

Credit Points: 8 Contact Hours: 3 per week

PHN150 OPTICS

Offered: Spring

The objective of this subject is to provide understanding and knowledge of fundamental optical theory and its



application to optical instruments used in spectroscopy. Optical materials and devices - spectral ranges; diffraction gratings; spectrographs; spectrometers; monochromators; spectrophotometers; special purpose instruments; lasers and their applications; optimum illumination; reduction of scattered light; Fourier spectroscopy and grille spectrometers; manufacturer's specifications.

Credit Points: 6 Contact Hours: 2 per week

PHN151 PHYSICS OF ULTRASOUND

Offered: Spring

A course of lectures and practical work covering the physical principles of diagnostic ultrasound including wave physics, propagation, the Doppler effect and the biological effects of ultrasound.

Credit Points: 6 Contact Hours: 2 per week

PHN152 CROSS-SECTIONAL ANATOMY

Offered: Spring

A study of the cross-sectional anatomy of the head, neck, thorax and abdomen (including the pregnant uterus) with an emphasis on an appreciation of the structures demonstrated on ultrasound images.

Prerequisite: PNN161 (or equivalent)

Co-requisite: PNN165 (or equivalent)

Credit Points: 6 Contact Hours: 2 per week

PHN153 ULTRASOUND EQUIPMENT I

Offered: Spring

A detailed study of medical ultrasound equipment, including aspects related to transducers, controls, display, image performance and artifacts.

Co-requisite: PHN151

Credit Points: 6 Contact Hours: 2 per week

PHN154 PRINCIPLES OF ULTRASOUND IMAGING

Offered: Spring

A course of lectures and practical exercises on the general principles of ultrasound imaging techniques including scanning motions, coupling agents, transducer selection and the problems associated with respiration.

Co-requisite: PHN151

Credit Points: 6 Contact Hours: 2 per week

PHN155 ULTRASONIC EXAMINATION IN OBSTETRICS & GYNAECOLOGY

Offered: Spring

A study of the normal and abnormal anatomy and function related to gynaecology and obstetrics, the ultrasonic techniques used and the appearance of related images.

Credit Points: 6 Contact Hours: 2 per week

PHN156 ULTRASONIC EXAMINATION OF THE ABDOMEN

Offered: Spring

A study of the techniques used in the ultrasonic examination of the abdomen including the appearance on the ultrasound image of normal abdominal anatomy and its alternation by pathological processes. **Co-requisite:** PHN154

Credit Points: 6 Contact Hours: 2 per week

PHN157 CLINICAL ULTRASOUND I

Offered: Spring

A supervised practical program carried out in an approved clinical ultrasound department. Students must obtain hands-on-experience in specified ultrasound procedures used in examination of the abdomen, pelvis and in obstetrics and gynaecology.

Co-requisites: PHN154, PHN153

Credit Points: 12

PHN202 BIOMECHANICS

Offered: Autumn

Study of mechanical principles and properties related to human tissues and physiological functions with emphasis on work ergonomics and occupational health measurement problems.

Credit Points: 8 Contact Hours: 3 per week

PHN204 HEALTH & OCCUPATIONAL PHYSICS

Offered: Autumn

Deals with philosophy, protocol and practices necessary to minimise hazards associated with electrical, mechanical and biological techniques used in hospitals. Study of principles and techniques of dosimetry of ionising radiation with emphasis on aspects pertinent to actual or potential use in medicine.

Credit Points: 8 Contact Hours: 3 per week

PHN206 MEDICAL IMAGING

Offered: Autumn

Study of the principles involved in the production of the radiographic and nuclear medicine image and the appropriate quality control protocols.

Credit Points: 8 Contact Hours: 3 per week

PHN257 CLINICAL ULTRASOUND II

Offered: Summer Term A period of additional clinical experience designed to refine basic skills acquired in PHN157. Prerequisite: PHN157

Credit Points: 12

PHN301 MICROPROCESSORS

Offered: Spring

Basic digital integrated circuits and their applications in logic design and microprocessor interfacing. Microprocessor programming and applications. Integrated with Instrumentation and Medical Imaging Science to develop an understanding of microcomputer function and applications.

Credit Points: 8 Contact Hours: 3 per week

PHN302 INSTRUMENTATION

Offered: Spring

This subject concentrates on gaining experience in the use of a wide range of instrumentation. Topics included are generalised instrument, data transfer, data interpretation, servomechanisms, data recorders, systems, practical aspects of instrument use. Laboratory learning experience in the gathering, conditioning, storage and analysis of data, using skills learned in digital electronics, computing and instrumentation. Digital signal processing of physiological signals, digital image processing, medical applications of numerical methods and medical statistics.

Credit Points: 8 Contact Hours: 3 per week

PHN304 MEDICAL IMAGING SCIENCE

Offered: Spring

Visual science, analogue and digital images, image enhancement, restoration and analysis, computed tomography, computer architectures, display instrumentation, recording and storage.

Credit Points: 6 Contact Hours: 2 per week

PHN350 ELECTRONICS

Offered: Autumn

The purpose of the subject is to acquaint students with the basic principles associated with using modem high technology devices. It covers basic characteristics of PN junction diodes and their applications in power supplies. Transistor types. Operational amplifiers, linear integrated circuit applications, com-



mon mode rejection. Transistors as switches, multivibrators, decimal counters, binary codes. ASCII code, 7 segment displays, logic gates, flip-flops, analogue to digital conversion and applications. Electronic circuit applications in modern chemical instrumentation.

Credit Points: 6 Contact Hours: 2 per week

PHN351 ULTRASOUND EQUIPMENT II

Offered: Autumn

A course of lectures and practical exercises on the principles and techniques of quality assurance protocols used in ultrasonic imaging.

Prerequisite: PHN153

Credit Points: 6 Contact Hours: 2 per week

PHN352 ULTRASONIC EXAMINATION IN CARDIOLOGY

Offered: Autumn

A study of the techniques of ultrasound imaging used in investigating the cardio-vascular system including techniques for demonstration of mitral, aortic and tricuspid valves, cardiac chambers, aorta, large blood vessels and superior vena cava.

Prerequisite: PHN257

Credit Points: 6 Contact Hours: 2 per week

PHN353 ULTRASOUND IN MEDICAL DIAGNOSIS

Offered: Autumn

A study of the role of ultrasound in medical imaging diagnosis.

Credit Points: 6 Contact Hours: 2 per week PHN354 ULTRASONIC EXAMINATIONS **OF THE HEAD, NECK & PERIPHERAL** ÖRGANS

Offered: Autumn

A course of lectures and practical work on the techniques ultrasound uses to examine the head, neck and peripheral organs and the ultrasonic appearance of normal and abnormal anatomy and pathology. Prerequisite: PHN257

Credit Points: 6 Contact Hours: 2 per week

PHN357 CLINICAL ULTRASOUND III Offered: Autumn

A supervised practical program carried out in an approved clinical ultrasound department. Students must obtain experience of specified ultrasound examinations used in cardiology and in the examination of the head, neck and peripheral organs.

Prerequisite: PHN257 Credit Points: 12

PHN402 RADIOTHERAPY

Offered: Spring

Considers the principles and techniques of clinical application of ionising radiation for diagnostic and therapeutic purposes. Emphasis is on radiotherapy physics and diagnostic X-rays.

Contact Hours: 2 per week Credit Points: 6

PHN405 PHYSIOLOGICAL MEASUREMENT

Offered: Spring

Introduction to the principles and techniques of the direct and indirect measurement of physiological variables

Credit Points: 6 Contact Hours: 2 per week

PHN407 CASE STUDIES

Offered: Autumn, Spring

Completion of three assignments in clinical practice procedures including reports written to journal publication standards.

Credit Points: 6 Contact Hours: 2 per week

PHN520 PROJECT

PHN540 PROJECT

Offered: Autumn, Spring

The project may take the form of research development, a design, a feasibility study, or the collation of scattered information on a given topic. The project can be undertaken externally under Queensland University of Technology supervision. Time spent on projects will be one year for full-time and two years for part-time students.

Credit Points: 96 (both)

Contact Hours: 18 & 9 respectively

PHP700 PROJECT

Offered: Full Year

All students undertaking Honours are required to select and undertake, in consultation with a supervisor, a substantial project in an appropriate area. Each project is assessed on the basis of an extensive written report and an oral presentation. Credit Points: 40

PHP702 ADVANCED TOPICS IN PHYSICS I

PHP703 ADVANCED TOPICS IN PHYSICS II Offered: Autumn, Spring

Two topics in each unit, determined by current research interests, staff availability and modern international developments. Examples: shock processing of powders, applied acoustics, ultraviolet physics, laser physics, classical mechanics. Credit Points: 6 (both)

Contact Hours: 2 (both)

PHP704 ADVANCED MATERIALS SCIENCE A 80).

Offered: Autumn

Physical and chemical properties of advanced materials. Includes mechanical, thermal, electrical, optical and magnetic properties of advanced materials, such as: fibre reinforced composites, rapidly solidified compounds, ceramics, inorganic polymers and shock processed materials.

Credit Points: 8, Contact Hours: 3 per week Note: This subject is not compatible with CHP704; credit may not be retained for both.

PHP705 ENVIRONMENTAL PHYSICS

Offered: Spring

This subject considers briefly various areas in which physicists are involved in the solution of significant environmental problems. The scale of the problems ranges from local to global concerns, with timescales ranging from minutes to decades. Some emphasis is placed on Australian conditions and recent research. The following topics are covered: fundamentals of environmental physics; boundary layer properties; air pollution concepts; thermal events; modelling and monitoring of environmental problems; remote sensing techniques; global environmental concerns.

Credit Points: 8 Contact Hours: 3 per week

📓 PNA170 ANATOMY & PHYSIOLOGY 1

Offered: Autumn

This subject will introduce students to an integrated study of anatomy and physiology. Emphasis will be placed on gaining an appreciation of the relationship between structure and function at the levels of cells and tissues, organ and organ systems. Initially the morphology and physiology of cells and tissues will be examined and then the structure and function of the skeletal, muscular, nervous and integumentary systems will be studied.

Credit Points: 8

Contact Hours: 3 per week



PNA171 ANATOMY & PHYSIOLOGY II Offered: Spring

The broad objectives outlined PNA170 will be continued. Emphasis in this subject will be upon the relationships between structure and function at the level of organs and systems. The cardiovascular, lymphatic, respiratory, digestive, urinary, genital, and endocrine systems will be studied.

Prerequisifes: PNA170 Co-requisite: MSA124 Credit Points: 8 Contact Hours: 3 per week

PNA550 CARDIAC PHYSIOLOGY & ANATOMY

Offered: Autumn

A subject designed to develop a sound biological basis for application in the subjects Cardiac Instrumentation and Cardiac Measurement Techniques. It includes study of both normal and disordered structure and/or function of the cardiovascular system, as well as the significance of physiological and/or anatomical parameters commonly measured by instrumentation. Prerequisites: PNA 170, PNA 171, MSA 121

Co-requisite: PHA561, PHA562

Credit Points: 5 Contact Hours: 2 per week

PNA650 RESPIRATORY PHYSIOLOGY & ANATOMY

Offered: Spring

A subject designed to develop a sound biological basis for application in the subjects Respiratory Instrumentation and Respiratory Measurement Techniques. It includes study of both normal and disordered structure and/or function of the respiratory system, as well as the significance of physiological and/or anatomical parameters commonly measured by instrumentation. Prerequisites: PNA 170, PNA 171, PNA 121

Co-requisite: PHA661, PHA662

Credit Points: 5 Contact Hours: 2 per week

■ PNA750 NEUROLOGICAL PHYSIOLOGY & ANATOMY

A subject designed to develop a sound biological basis for application in the subjects Neurological Instrumentation and Neurological Measurement Techniques. It includes study of both normal and disordered structure and/or function of the nervous system as well as the significance of physiological and/or anatomical parameters commonly measured by instrumentation.

Prerequisites: MSA121, PNA170, PNA171

Co-requisite: PHA761, PHA762

Credit Points: 5 Contact Hours: 2 per week

PNA850 UROLOGICAL PHYSIOLOGY & ANATOMY

Offered: Spring

A subject designed to develop a sound biological basis for application in the subjects Urological Instrumentation and Urological Measurement Techniques. It includes study of both normal and disordered structure and/or function of the urinary system, as well as the significance of physiological and/or anatomical parameters commonly measured by instrumentation. **Prerequisites:** PNA170, PNA171, MSA121

Co-requisite: PHA861, PHA862

Credit Points: 5 Contact Hours: 2 per week

PNB115 HUMAN PHYSIOLOGY I

Offered: Autumn

The aim of this subject is to enable students to enhance their knowledge of concepts related to a physiological basis for nursing practice. It is designed to enable students to effectively apply problem solving principles to health care delivery to clients in any age group. This subject will introduce students to the functions of major systems under normal conditions in healthy burnans and forms a firm basis for an understanding of abnormal function to be presented in PNBB116.

Credit Points: 12 Contact Hours: 3 per week

PNB116 HUMAN PHYSIOLOGY II

Offered: Spring

This subject considers the physiological basis of the clinical manifestation, pathogenesis and treatment of selected disorders of the cardiovascular, respiratory, haematological, renal, gastrointestinal, nervous and endocrine systems.

Prerequisites: PNB115

Credit Points: 6 Contact Hours: 2 per week

PNB125 ANATOMY & PHYSIOLOGY I Offered: Autumn

A study of human anatomy of the body as a whole including a detailed study of the skeletal system. Credit Points: 10 Contact Hours: 4 per week

PNB131 ANATOMY I

Offered: Autumn

An integrated course of lectures and practicals dealing with microscopic structure of the cell, epithelium, connective tissue, bonc and cartilage, muscle tissue, nerve tissue, and cardiovascular system. Also deals with the gross anatomical of the skeletal, articular, and cardiovascular systems.

Credit Poiuts: 6 Contact Hours: 3 per week

PNB132 ANATOMY II

Offered: Spring

An extension of PNB131. A course dealing with the nicroscopic and macroscopic anatomy of the nervous, digestive, lymphatic, integumentary, respiratory, renal, endocrine and reproductive systems.

Prerequisites: PNB131

Credit Points: 6 Contact Hours: 3 per week

📓 PNB163 HUMAN ANATOMY I

Offered: Autumn

An integrated course of lectures and practicals dealing with microscopic structure of the cell, epithelium, connective tissue, bone and cartilage, muscle tissue, nerve tissue, and cardiovascular system. Also deals with the gross anatomical of the skeletal, articular, and cardiovascular systems.

Credit Points: 8 Contact Hours: 3 per week

🔳 PNB165 PHYSIOLOGY II

Offered: Spring

A course of lectures and practicals. Basic mechanisms - cells, fluids, electrolytes; energy metabolism; essential nutrients; transport mechanisms; blood; communication and control; excitable tissues. Control systems - nervous and endocrine systems. This subject must be taken by students wishing to study nutrition electives.

Co-requisite: CHB201

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with PHB231; credit may not be retained for both.

PNB202 ENVIRONMENTAL HEALTH II Offered: Spring

Students will be introduced to a brief history of environmental health in Qucensland, the current role of environmental health officers within the public health agencies at all levels of government and the principal public health legislation in the State. This subject also deals with the management of an environmental



health unit and provides a foundation for understanding the various legal procedures associated with the duties of such officers.

Credit Points: 16 Contact Hours: 7 per weck

PNB203 ENVIRONMENTAL HEALTH III Offered: Autumn

In this subject students will develop an understanding of the complexity of environmental systems, the effects of pollutants on such systems and the interdisciplinary approaches needed to address these problems. They will also study introductory food science and current food standards prescribed by legislation.

Prerequisites: CHB242, BEB103, BEB104 Credit Points: 14 Contact Hours: 7 per week

PNB204 ENVIRONMENTAL HEALTH IV

Offered: Spring

There are three major strands in this subject, covering the construction and design of food premises and their hygienic operation; the potential risks to water resources and design and operation of processes to treat drinking and recreational waters; and the management of community wastes, focusing on the origins, transport and disposal of liquid, solid and hazardous wastes. **Prerequisites:** PNB203

Credit Points: 18 Contact Hours: 9 per week

PNB205 ENVIRONMENTAL HEALTH V

Offered: Autumn

This subject will address the causative agents of communicable and noncommunicable diseases and conditions and introduce students to the principles of and methods in epidemiology. The food hygiene foundation provided in PNB204 will be further developed to encompass food poisoning and spoilage. Students will gain a knowledge of relative pest control principles and practices, especially in relation to vectors of disease.

Prerequisites: PNB204, MSB402, PNB232 Credit Points: 30 Contact Hours: 16 per week

PNB206 ENVIRONMENTAL HEALTH VI Offered: Spring

This subject will develop a sound theoretical and practical knowledge of a wide range of environmental health problems which confront the community. The underlying principles of health promotion and their effective practical application will be addressed. Food topics will be completed by considering aspects of food production and packaging and concepts of nutrition and malnutrition. Students will also gain an insight into obligations, responsibilities and ethics of professional practice.

Prerequisites: PNB205

Credit Points: 30 Contact Hours: 16 per week

PNB210 OCCUPATIONAL HEALTH & SAFETY I

Offered: Autumn

This subject will introduce students to the basic concepts of occupational health and safety, such that they can identify health and safety problems in the workplace; be aware of strategies for dealing with such problems, and become familiar with the legislation, government agencies and health personnel associated with the working environment. Topics covered will include the physical, chemical and biological working environments, temporal work patterns and the design and use of protective devices. **Credit Points:** 6 **Contact Hours:** 3 per week

PNB211 OCCUPATIONAL HEALTH & SAFETY II

Offered: Spring

This subject develops further the principles covered in PNB210 and highlights their practical application to the workplace. Students will also develop knowledge and skills associated with the actual measurement of the physical and chemical working environment, physiological effects on humans in the workplace and evaluation of the data collected. **Prerequisites:** PNB210

Credit Points: 8 Contact Hours: 4 per week

PNB220 SYSTEMATIC ANATOMY Offered: Spring

An extension of PNB163. A course dealing with the microscopic and macroscopic anatomy of the nervous, digestive, lymphatic, integumentary, respiratory, renal, endocrine and reproductive systems. **Prerequisite:** PNB163

Credit Points: 10 Contact Hours: 3 per week

PNB225 ANATOMY & PHYSIOLOGY II Offered: Spring

A course of lectures and practical exercises involving a basic, yet comprehensive, study of the anatomy and physiology of the various body systems. Prerequisite: PNB125

Credit Points: 10 Contact Hours: 4 per week

PNB231 ANATOMY & PHYSIOLOGY I

Offered: Autumn, Spring

This subject introduces students to an integrated study of anatomy and physiology at the degree level. Emphasis is placed on gaining an appreciation of the relationship between structure and function at the levels of cells, tissues, organs and organ systems. Initially the morphology and physiology of cells and tissues is examined. Metabolism, nutrition and temperature regulation are reviewed and then the skeletal, muscular, nervous and integumentary systems studied.

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with PNB165; credit may not be retained for both.

PNB232 ANATOMY & PHYSIOLOGY II Offered: Autumn, Spring

The broad objectives outlined in PNB231 are continued. Emphasis in this subject is focused on structure-function relationships at the level or organs and systems. The cardiovascular, lymphatic, respiratory, digestive, urino-genital, and endocrine systems are studied. A review of the actions of drugs on cells, tissues, organs and systems is given at the end of the subject.

Prerequisite: PNB231

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with PNB465; credit may not be retained for both.

PNB261 ANATOMY & PHYSIOLOGY I

Offered: Autumn

This subject will introduce students to an integrated study of anatomy and physiology at the degree level. Emphasis will be placed on gaining an appreciation of the relationship between structure and function at the levels of cells, tissues, organs and organ systems, initially the morphology and physiology of cells and tissues will be examined. The skeletal, muscular, nervous and integumentary systems will be studied. Credit Points: 12 Contact Hours: 4 per week

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PNB262 ANATOMY & PHYSIOLOGY II

Offered: Spring

This subject follows on PNB261, integrating the study of structure and function of the human body. The systematic physiology of organs and organ systems continues with the study of the cardiovascular, lymphatic, immune, endocrine, respiratory, digestive, urinary and reproductive systems. Metabolism, nutrition and temperature regulation will be reviewed. A brief study on pregnancy and human development will be included.

Prerequisites: PNB261

Credit Points: 12 Contact Hours: 4 per week

PNB301 ADVANCED ANATOMY

Offered: Autumn

On completion of this subject, students should be able to describe the structures, function and anatomical relationship of the components of the lower limb and demonstrate anatomical knowledge which will be fundamental to the understanding of the functional and applied aspects of podiatric anatomy.

This subject contains the major topics of osteology, myology, arthrology, angiology and neurology. Prerequisites: PNB220 Co-requisite: PNB302 Credit Points: 8 Contact Hours: 3 per weck

PNB302 PODIATRIC MEDICINE I

Offered: Autumn

This subject introduces the student to the health, social and economic implications of podiatric care in the general population with particular reference to specialised groups e.g., children, diabetics, the aged and sports patients. It also provides foundation studies essential to the pre-clinical student in the diagnosis and treatment of conditions commonly manifesting in the foot.

Prerequisites: PNB220

Co-requisite: PNB420, PNB303

Credit Points: 10 Contact Hours: 5 per week

PNB303 CLINICAL PODIATRY I

Offered: Autumn

On completion of this subject students should be able to demonstrate competent operating skills; expertise in clinical observation of the patient and the elicitation of an accurate medical record; recognise common clinical entities and implement appropriate treatment and develop a professional attitude towards patients, clinical teaching and care of equipment used during clinical practice.

Prerequisites: MSB031 Co-requisite: PNB302 Credit Points: 8 Contact Hours: 5 per week

PNB304 PHYSICAL MEDICINE

Offered: Autumn

This subject is designed to introduce the student to a wide range of diagnostic and physical treatment modalities used in modern podiatric practice. On completion of this subject, students should be able to understand the uses, applications, contra indications and limitations of each modality studied in direct connection with the ongoing clinical studies and theoretical component of podiatric medicine lectures. **Prerequisites:** PNB435

Co-requisite: PNB504, PNB410

Credit Points: 6 Contact Hours: 2 per week

PNB305 HUMAN NUTRITION I

Offered: Autumn

This subject builds on student's foundations in physiology to gain an appreciation of the meaning of

nutrition, of methods used in its study, of food as a source of nutrients, of the nutritional impact of technology and other aspects of the subject.

Co-requisite: MSB415 + PNB165 or PNB231 Credit Points: 6 Contact Hours: 3 per week

PNB306 PHARMACOLOGY

Offered: Autumn

This course is designed to ensure that students understand basic system drug therapies their patients may be using, the groups of drugs for specific diseases and their application and relevance to Podiatry and Clinical Podiatry situation. Emphasis is placed on drug groups and their use for specific disease, rather than proprietary brands. Students will be able to recognise the drug groups and know the system they are acting on in the body. In addition, differentiation between the different groups within one group of systemic drugs and why they are used for a condition will be emphasised.

Prerequisites: CHB242 Co-requisite: MSB471 Credit Points: 8 Contact Hours: 3 per week

PNB325 REGIONAL & SECTIONAL ANATOMY

Offered: Autumn

An expansion of the topics introduced in PNB125 and PNB225 to a detailed study of regional and sectional anatomy of the human body.

Prerequisite: PNB225

Credit Points: 8 Contact Hours: 4 per week

📓 PNB363 HUMAN ANATOMY III

Offered: Autumn

An extension of PNB163 Human Anatomy I. This integrated course of lectures and practicals will cover basic embryology, structure and development of the eye, and gross and microscopic anatomy of the major organ systems of the human body.

Prerequisites: PNB163

Credit Pnints: 10 Contact Hours: 5 pcr week

PNB406 ADVANCED ORTHOSES

Offered: Autumn

This subject is designed to demonstrate a broad knowledge of orthotic and prosthetic devices as applicable to podiatric practice. The student will be required to display a high standard of practical skills in producing a range of orthoses e.g. butt edge seams, latex bandage technique, rubber butter devices, expandable foams, latex dipped devices, and specialised thermoplastic, display a high standard of practical skills in producing a range of orthoses for specialised patients e.g. partial or complete forefoot amputees, diabetics, arthritic conditions, post operative patients. **Prerequisites:** PNB506, PNB503

Co-requisite: PNB603

Credit Points: 6 Contact Hours: 3 per week

PNB410 MEDICINE

Offered: Autumn

Following completion of this subject students should be able to recognise and understand the clinical features, pathogenesis and significance of common conditions affecting the lower limb, e.g., oedema; obesity; motor, sensory and trophic disturbances and their resultant effects in paralysis, ataxia, deformity and ulceration; intermittent claudication, vascular spasm and cramp are taught so as to emphasise their significance. Medical conditions with manifestations in the feet are given particular attention. Prerequisites: MSB430, PNB435

Co-requisite: PNB503

Credit Points: 8 Contact Hours: 3 per week

PNB411 ORTHOPAEDICS

Offered: Spring

The emphasis of this subject will be on orthopaedic surgery. It will seek to develop a detailed knowledge of general and specific orthopaedic conditions which have an effect on the lower limb and the surgical treatment of systemic conditions as seen by the podiatrist i.e., diabetes. In addition the subject will provide an understanding of the special problems associated with children and specific lower limb conditions with emphasis on the surgical techniques used in their treatment.

Prerequisites: PNB503, PHB313 Co-requisite: PNB505

Credit Points: 8 Contact Hours: 3 per week

PNB412 CLINICAL PODIATRY II

Offered: Spring

At this stage students will be able to follow cases through to observe the 'short term' effect of therapy and will be expected to commence case studies to develop comparative and recording skills. Students should now be adopting the standard medical terminology and abbreviations used in clinical situations.

Prerequisites: PNB303, PNB302

Co-requisite: PNB506

Credit Points: 8 Contact Hours: 6 per week

PNB420 ORTHOTIC SCIENCE I

Offered: Autumn

This subject will introduce the student to many of the commonly used types of orthoses and procedures employed in modern podiatric practice. The subject will enable students to discuss the main types of orthoses employed in podiatric practice and to give a reasoned explanation on choice of orthotic types and properties of materials. Students should also be able to explain the main techniques employed in producing orthoses i.e., non-casting and casting techniques and their uses in orthotic practice.

Prerequisites: PNB460 Co-requisite: PNB302 Credit Points: 6 Contact Hours: 3 per week

PNB421 PODIATRIC MEDICINE II

Offered: Spring

The foundation for study in the role of therapeutics in patient management including short term and long term managements of conditions. It will expand the range of understanding of the wide variety of conditions presenting to the podiatrist. On completion, students should be able to develop an understanding of the biomechanical principles affecting the joints of the foot and the structural and functional consequences presenting in podiatric practice.

Prerequisites: PNB302 Co-requisite: PNB412 Credit Points: 12 Contact Hours: 4 per week

PNB422 PODIATRIC ANAESTHESIOLOGY

Offered: Autumn

This subject is designed to provide a sound understanding of the science of anaesthetics as applicable to the practice of podiatry. Students will be required to understand the pharmacology of local anaesthetics in current use and their clinical usage, and be competent in injection techniques, including local infiltration and local nerve block in the lower limb. **Prerequisites:** PNB305, PNB421

Co-requisite: PNB410

Credit Points: 6 Contact Hours: 2 per week

PNB425 IMAGING ANATOMY

Offered: Spring

A study of the appearances, on medical images, of normal and abnormal anatomy.

Credit Points: 8 Contact Hours: 4 per week

PNB435 HUMAN PHYSIOLOGY

Offered: Spring

A course of lectures and practicals. The lectures are the same as PNB165 Physiology II and PNB465 Physiology III. The course is presented as a one semester program.

Prerequisite: MSB471 Co-requisite: MSB430 Credit Points: 12 Contact Hours: 7 per week

PNB465 PHYSIOLOGY III

Offered: Autumn

A course of lectures and practicals. Maintenance systems - gastrointestinal; cardiovascular; respiratory; and renal systems. Integrated mechanisms - sexual development; pregnancy; parturition; lactation; control of growth, energy intake, organic metabolism, body temperature, ECF osmolarity and volume, major cations, blood pressure and flow, respiration; response to tissue damage and foreign matter; adaptation to stress and exercise. This subject must be taken by students wishing to study Nutrition electives. **Prerequisite:** PNB165

Credit Points: 8 Contact Hours: 4 per week Note: This subject is not compatible with PNB232; credit may not be retained for more than one of these subjects. Consult Strand Co-ordinator.

PNB502 DERMATOLOGY

Offered: Spring

This subject is designed to provide an appreciation of the many varieties of skin lesions and their particular relevance when found in the lower limb. The lecture program will consist of classification of skin disease, vascular reaction group, vasculities, ulcers, peripheral vascular disease, tumours, eczema, dermatitis, allergy, immunity, infections, psoriasis, squamous eruptions, nails and hair, skin manifestations of internal disease, pharmacology and general therapeutics. The clinical sessions will utilise this information in allowing students the opportunity to see and diagnose many of these conditions.

Prerequisites: PNB410, PNB421

Co-requisite: PNB503

Credit Points: 6 Contact Hours: 3 per week

PNB503 PODIATRIC MEDICINE III Offered: Autumn

This subject develops the professional understanding of the general and specific effects of medical and surgical conditions on the human foot. It also expands the concept of total case management in terms of the interdisciplinary approach. Including physical, mechanical and surgical techniques. On completion of this subject students should be able to consolidate the role podiatrist in the health care team across the spectrum of practice.

Prerequisites: PNB421

Co-requisite: PNB504, PNB604

Credit Points: 10 Contact Hours: 3 per week

PNB504 CLINICAL PODIATRY III

Offered: Autumn

On completion of this subject the student should be able to consolidate upon skills acquired in operative mechanical, chemical and physical therapy and to demonstrate expertise in the treatment of the diabetic arthritic foot, and related circulatory and neurological

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disorders. Diagnostic skills will also be developed with the wider range of patients being treated and the specialised study of disciplines such as dermatology and radiology further integrating academic and clinic studies.

Prerequisites: PNB412, PNB421

Co-requisite: PNB304

Credit Points: 6 Contact Hours: 9 per week

PNB505 PODIATRIC SURGERY

Offered: Spring

The implementation of podiatric surgical techniques based on a strong theoretical component of knowledge. At the conclusion of this course students will be able to understand the principles and techniques of minimal incision surgery.

Prerequisites: PNB422, PNB410

Co-requisite: PNB603

Credit Points: 12 Contact Hours: 4 per week

PNB506 ORTHOTIC SCIENCE II

Offered: Spring

A consolidation of Orthotic Science I; on completion students should be able to discuss the main types of functional and semi-rigid devices employed in orthotic thrcapy. The subject will also provide an understanding of the main techniques employed in dispensing orthotics made from a positive cast i.e., cast evaluation, bisection, pouring, modification, intrinsic and extrinsic posting. Students will also be informed how to write a prescription for the dispensing of an orthotic to comply with patients individual requirements i.e., children, adolescent, adult and special requirements, marathoners, arthritic, post operative and obese patient.

Prerequisite: PNB420 Co-requisite: PNB421

Credit Points: 8 Contact Hours: 3 per week

PNB602 SPORTS MEDICINE

Offered: Spring

This course provides an awareness of the importance of a multidisciplinary approach to the diagnosis, evaluation and treatment of sports injuries. Students will study the symptomology of lower limb functional pathologies as related to specific sports and devise treatment programs. An understanding of the principles of human fitness and potential in relation to athletic injuries and expectations forms the foundation for further studies.

Prerequisites: PNB503, PNB410 Co-requisite: PNB411

Credit Points: 10 Contact Hours: 3 per week

PNB603 CLINICAL PODIATRY IV

Offered: Spring

This subject is designed to prepare the student for the transition to private practice. During this semester students will be introduced to the sports medicine patient in terms of the range of injuries which occur affecting the lower back, hip, knee, ankle and foot. Case presentations will be an integral part of clinical learning and sessions conclude with exchange between students and staff over case management. Prerequisite: PNB504 Co-requisite: PNB411 Credit Points: 6 Contact Hours: 6 per week

PNB610 PROJECT & PROFESSIONAL MANAGEMENT

Offered: Spring

The two component parts of this subject explain firstly how a professional practice may be set up and how a small practice can operate as a business enterprise. Methods of budgeting, finance and control are explained. Secondly it aims to develop an interest in podiatry research using scientific methods of investigation and presentation. Students will be encouraged to publish these projects as original material in related professional journals.

Credit Points: 6 Contact Hours: 4 per week

PNB665 CLINICAL PHYSIOLOGY

Offered: Spring

This subject aims to develop in the student an appreciation of the physiological basis of the pathogenesis, clinical features and treatment of the major disorders of the cardiovascular, respiratory, haematological, renal, gastrointestinal and endocrine systems. In addition, students will be introduced to topics of particular interest to those wishing to pursue a career in nutrition and dietetics, such as the chemical carcinogenesis, nutrition in cancer patients, and the metabolic response to stress.

Prerequisite: PNB165 + PNB465

Credit Points: 10 Contact Hours: 4 per week

PNB667 ADVANCED NUTRITIONAL PHYSIOLOGY

Offered: Spring

This subject examines the links between normal and abnormal food intake and normal and abnormal physiological functions in the human body. Special attention is focused on the role of nutrition in the physiology of the cardiovascular, renal, gastrointestinal and nervous systems.

Prerequisite: PNB165 + PNB465

Credit Points: 10 Contact Hours: 4 per week

PND131 ANATOMY

Offered: Autumn

Addresses the general principles of anatomy. Deals with the macroscopic and microscopic structures of the human body. Introductory surface and regional anatomy are dealt with in relation to systemic anatomy.

Credit Points: 9 Contact Hours: 4 per week

PND241 BIOMEDICAL SCIENCE

Offered: Spring

Covers aspects of essential biochemical processes, basic physiological principles, fundamentals of disease processes and basic pharmacological principles. **Prerequisites:** CHD148

Credit Points: 6 Contact Hours: 3 per week

PND340 CLINICAL PHYSIOLOGY I

Offered: Autumn

Considers the physiological basis of the clinical manifestations, pathogenesis and principles of treatment of the major disorders of the respiratory, cardiovascular, haematological, urinary, digestive and musculo-skeletal systems.

Prerequisites: PND241

Credit Points: 9 Contact Hours: 4 per week

PND420 ANATOMY II

Offered: Autumn

The structures, function and anatomical relationship of the components of the lower limb and its application to clinical podiatry.

Prerequisites: PND120 Co-requisities: PND431 Credit Points: 6 Contact Hours: 3 per week

PND421 FOOD & NUTRITION

Offered: Spring

Addresses the role of nutrients in the body in health and disease. Examines nutritional issues of current



significance in the Australian diet. Highlights individuals and groups at risk of nutrition related disease and suitable goals for dietary modification of these people. Examines why people develop their food habits and their sources of nutrition information. Prerequisites: PND241

Contact Hours: 3 per week Credit Points: 6

PND430 PHYSIOLOGY

Offered: Autumn

A course of lectures and practicals. The lectures are the same as PNB165 and PNB465. The course is presented as a one semester program.

Prerequisite: MSD114 Co-requisite: MSD410

Credit Points: 10 Contact Hours: 6 per week

PND431 PODIATRY III

Offered: Autumn

Clinical teaching in practical podiatry extends throughout the course. Practical training is given in the management of a wide range of cases of increasing difficulty, these being representative of the wide field of practice in which skills must be at a high level in diagnosis, operating skill, therapeutic procedures and podiatrie orthotics.

Prerequisites: PND132

Co-requisites: PND420, PHD441

Credit Points: 20 Contact Hours: 10 per week

PND432 PODIATRY IV

Offered: Spring

Clinical teaching in practical podiatry extends throughout the course. Practical training is given in the management of a wide range of cases of increasing difficulty, these being representative of the wide field of practice in which skills must be at a high level in diagnosis, operating skill, therapeutic procedures and podiatric orthotics.

Prerequisites: PND431

Co-requisites: PND442, PND460

Credit Points: 18 Contact Hours: 10 per week

PND441 ORTHOTICS III

Offered: Autumn

This subject expands upon PND142 Orthotics II by providing additional clinical instruction, where theoretical methods are related to patient diagnosis and treatment.

Prerequisites: PND142, PND132

Co-requisites: PND431

Credit Points: 6 Contact Hours: 3 per week

PND442 ORTHOTICS IV

Offered: Spring

Expands orthotic practice by careful consideration of problems of abnormal posture and gait which may be appropriate and amenable to orthotic control, Prerequisites: PND441, PND431

Co-requisites: PND432

Credit Points: 6 Contact Hours: 3 per week

PND452 THERAPEUTICS II

Offered: Autumn

This subject is a continuation of Therapeutics I and endeavours to expand the student's knowledge in the way that chemotherapeutic agents and medicaments are used in podiatric and medical practice.

Prerequisites: PND132, PND451

Credit Points: 2 Contact Hours: 1 per week

🔟 PND460 PODIATRIC ANAESTHESIOLOGY

Offered: Spring

The science of anaesthetics as applicable to the practice of podiatry. The pharmacological study of local anaesthetics will be concurrent with instruction in their clinical usage. Injection techniques will include local infiltration and digital nerve block. Prerequisites: PND452, PND431 Co-requisite: PND710

Credit Points: 4 Contact Hours: 2 per week

PND461 SPECIAL PROCEDURES CLINIC Offered: Autumn

A clinic in which procedures under local anaesthesia can be undertaken for those conditions requiring radical treatment. These procedures will include the use of cryotherapy, chemotherapy and electrocautery. Prerequisites: PND460, PND471, PND710 Co-requisites: PND432

Credit Points: 6 Contact Hours: 2 per week

PND469 MEDICINE

Offered: Spring

The course aims to provide a basic understanding of systemic disease. The etiology, pathology, symptomology and principles of treatment are given for the more common systemic illnesses. Particular emphasis is given to those conditions which give rise to manifestations in the lower limb and their significance and recognition.

Prerequisites: MŠD410, PND431

Co-requisites: PND471 Credit Points: 6 Contact Hours: 3 per week

PND470 HUMAN GENETICS & DEVELOPMENT

Offered: Autumn

Genetic principles and their applications in the field and in medicine; normal and abnormal human development.

Prerequisites: BED150, PND120

Contact Hours: 1 per week Credit Points: 2

🖪 PND471 SURGERY

Offered: Spring

General surgical principles and practice techniques of general surgery with emphasis on orthopaedic surgery. The program includes lectures and attendance at a hospital orthopaedic clinic where possible. Prerequisites: PND431 Co-requisites: PND469 Contact Hours: 2 per week

Credit Points: 4

PND540 CLINICAL PHYSIOLOGY II

Offered: Autumn

Considers the physiological basis of the clinical manifestations, pathogenesis and principles of treatment of the major disorders of the nervous system. Prerequisites: PND241

Credit Points: 6 Contact Hours: 3 per week

PND640 CLINICAL PHYSIOLOGY III

Offered: Spring

Considers the physiological basis of the clinical manifestations, pathogenesis and principles of treatment of the major disorders of the endocrine, reproductive and integumentary systems.

Prerequisites: PND241

Credit Points: 6 Contact Hours: 3 per week

PND701 DERMATOLOGY

Offered: Autumn

Students are taught to appreciate the varieties of skin lesions as they affect the lower limb. The program includes lectures and attendance at a hospital dermatology unit.

Prerequisites: PND469, PND471

Co-requisites: PND731

Credit Points: 4 Contact Hours: 2 per week



PND710 PHARMACOLOGY

Offered: Spring

Drug groups and their action on the body systems; the effect of certain drugs with manifestations pertaining to the podiatrist.

Prerequisites: PND452 Co-requisites: PND460 Credit Points: 4 Contact Hours: 2 per week

PND731 PODIATRY V

Offered: Autumn

Clinical teaching in practical podiatry extends throughout the course. Practical training is given in the management of a wide range of cases of increasing difficulty, these being representative of the wide field of practice in which skills must be at a high level in diagnosis, operating skill, therapeutic procedures and podiatric orthotics.

Prerequisites: PND432 Co-requisites: PND750 Credit Points: 26 Contact Hours: 13 per week

PND732 PODIATRY VI

Offered: Spring

Clinical teaching in practical podiatry extends throughout the course. Practical training is given in the management of a wide range of cases of increasing difficulty, these being representative of the wide field of practice in which skills must be at a high level in diagnosis, operating skill, therapeutic procedures and podiatric orthotics.

Prerequisites: PND731 Co-requisites: PND761 Credit Points: 26 Contact Hours: 13 per week

PND742 ORTHOTICS VI

Offered: Spring

This unit follows on from Orthotics IV and teaches the student to adapt previously learned principles of orthotic fabrication to incorporate prosthetic devices where appropriate.

Prerequisites: PND442 Co-requisites: PND732 Credit Points: 6 Contact Hours: 3 per week

PND752 CLINICAL BIOMECHANICS

Offered: Autumn

In this subject students are taught the biomechanical principles of foot function as used in the clinical situation.

Prerequisites: PHD460 Co-requisites: PND731 Credit Points: 6 Contact Hours: 3 per week

PND761 SPORTS MEDICINE

Offered: Spring

This course follows on from the Orthotics units and the subject Kinesiology and Biomechanics, and is designed to consider the special needs of athletes. Studies are undertaken in those conditions which affect foot function and subsequent athletic performance.

Prerequisites: PND750 Co-requisites: PND732

Credit Points: 6 Contact Hours: 3 per week

Offered: Spring

Students are required to undertake special projects and to submit a thesis related to either a theoretical or clinical topic of their own choice.

Credit Points: 6 Contact Hours: 2 per week

PNN101 ENVIRONMENTAL HEALTH

Offered: Spring

Currently, there is heightened awareness about the nature of industrialised human activity and its impact upon natural resources and human health. Nurseshave traditionally been concerned with the provision of an environment which is conducive to the promotion, maintenance and/or restoration of health. Thus, an understanding of contemporary environmental health issues is vital to the provision of effective health care which meets the needs of today's society. Content will be selected from an introduction of ecosystems or environmental factors and human health.

Credit Points: 6 Contact Hours: 1.5 per week

■ PNN102 NUTRITION & LIFESTYLE

Offered: Spring

A wide variety of illness has its basis in inappropriate nutrition. In this subject, particular emphasis is placed on current trends in nutrition epidemiology in order to assist practising nurses in their health education efforts with clients.

Credit Points: 6 Contact Hours: 1.5 per week

PNN161 ANATOMY & PHYSIOLOGY I

Offered: Autumn

A study of basic functional anatomy covering cells, tissues, and the organ systems of the human body. The lectures and practical work are integrated and emphasise the relationships between structure and function.

Credit Points: 6 Contact Hours: 2 per week

PNN165 ANATOMY & PHYSIOLOGY II Offered: Spring

A study of the mechanisms and controls of body functions. Stress is placed on fundamental principles and the practical work serves to illustrate these principles, as well as providing experience in physiological recording and investigative techniques. Credit Points: 8 Contact Hours: 3 per weck

PNP104 APPLIED NUTRITION I

Offered: Autumn

The application of nutrition principles to groups and populations is examined. Tools used in assessment including recommended dietary intakes and food composition tables are discussed. External determinants on nutrition such as food legislation and financial constraints are also discussed. The role of agencies involved in nutrition education are included.

Credit Points: 4 Contact Hours: 2 per week PNP108 APPLIED NUTRITION II

Offered: Spring

The application of nutrition knowledge and assessment techniques to groups of individuals and population. Nutrition problems in Australia as a whole will be addressed as will the nutritional needs of specific groups. Nutrition planning and policy and variations between states will be discussed.

Prerequisites: PNP104, PNP143

Credit Points: 6 Contact Hours: 3 per week

PNP111 FOOD STUDIES I

Offered: Autumn

The subject provides an overview of the structures and composition of food and its role in providing for nutritional requirements of the community. The impact of processing on nutrients in food is considered. The subject is closely allied with the subjects Foundations of Nutrition and Food Studies II.

Credit Points: 4 Contact Hours: 2 per week

PNP112 FOOD STUDIES II

Offered: Spring

Provides an opportunity to experiment with food commodities and to practise service planning, and food presentation. Examines the ingredient content of commercial foodstuffs. Examines the role of individual ingredients of foodstuffs in the determination of food structure and organoleptic properties.

Prerequisites: PNP111

Co-requisites: PNP120, PNP108

Credit Points: 6 Contact Hours: 3 per week

PNP115 OCCUPATIONAL HEALTH & SAFETY ADMINISTRATION I

Offered: Autumn

This fundamental subject will introduce students to basic concepts in occupational health and safety. They will develop both an understanding of and skills in not only basic management principles as they apply to this discipline but also in the development and delivery of health and safety training programs. A sound foundation in the principles and practice of health promotion will also be developed.

Credit Points: 12 Contact Hours: 3 per week

PNP116 HUMAN FACTORS

Offered: Autumn

This subject will introduce the human factors in occupational health and safety. Basic human anatomy and physiology will be reviewed prior to a discussion of how the physico-chemical environment of the workplace can impinge on normal physiological function. The psychology of humans in the work environment will be discussed with consideration of attitudes towards health and safety. The use of ergonomics, anthropometry and biomechanics in the design of safer workplaces will be reviewed.

Credit Points: 12 Contact Hours: 3 per week

PNP120 THERAPEUTIC DIETETICS

Offered: Spring

An extensive study of the application of dictary modifications and nutritional support in clinical settings. The emphasis is on dietary intervention for individuals particularly those with medical or surgical conditions where diet forms part of the treatment. There is a large practical component.

Prerequisites: PNP143, PNP104

Credit Points: 10 Contact Hours: 7 per week

PNP122 PRACTICE IN THERAPEUTIC DIETETICS

Offered: Autumn

Practical experience and seminar presentations relevant to PNP120. The course will be conducted in institutions off-campus. (40 hours per week for 11 weeks).

Prerequisites: Completion of all subjects Semester 1 & Semester 2

Credit Points: 31 Contact Hours: 40 per week

PNP123 PRACTICE IN COMMUNITY NUTRITION

Offered: Autumn

This subject enables students gain experience of nutrition and health care of individuals and groups in the community through off-campus practice. (40 hours per week for 3 weeks).

Prerequisites: Completion of all subjects Semester I & II

Credit Points: 7 Contact Hours: 40 per week

PNP124 INTRODUCTION TO DIETETICS PRACTICE I

PNP125 INTRODUCTION TO DIETETICS PRACTICE II

Offered: Autumn, Spring

These subjects offer an introduction to clinical dictetics. They involve one week each principally in the hospital setting. The offer an opportunity to practise interviewing and dietary assessment. Credit Points: (PNP124)-4; (PNP125)-6 Contact Hours: 40 per week

PNP132 PRACTICE IN LARGE SCALE FEEDING

Offered: Autumn

Practical experience and seminar presentations relevant to PNP137. The course will be conducted in institutions off-campus (40 hours per week for 4 weeks). Prerequisites: Completion of all subjects Semester 1 & Semester 2

Credit Points: 10 Contact Hours: 40 per week

PNP137 CATERING STUDIES

Offered: Spring

This subject is an introduction to institutional food service administration. Topics include the organisation of foodservice, production, distribution and service of food menu planning, hygiene, maintenance, financial control, human resource management and computer assistance and quality assurance. Field trips are included.

Prerequisites: MSP152, PNP143, PNP111 Co-requisites: PNP112

Credit Points: 7 Contact Hours: 5 per week

PNP142 MEDICINE

Offered: Spring

Artiology of disease. Brief description of treatment other than dietary of hypertension, cardiovascular, renal, gastro-intestinal and mental diseases, diabetes mellitus. Effect of nutrition on teeth, eyes, skin general dental care and the effects of special diets on teeth, child health, nutrition in pregnancy, lactation, the aged. Brief introduction to pharmocology and proprietary names of drugs.

Credit Points: 4 Contact Hours: 1.5 per week

PNP143 FOUNDATION OF NUTRITION Offered: Autumn

This subject builds on the background of biochemistry and human physiology of the students. It brings together, in an integrated manner, appropriate areas of biological chemistry and physiological function, to provide a scientific base on which the study of human nutrition can be built. Special attention is given to the development, structure and function of the gastro-intestinal tract and related organs, energy and work, interrelationships between food, additives and drugs. Credit Points: 12 Contact Hours: 6 per week

PNP151 PROJECT I

PNP251 PROJECT II

Offered: Autumn, Spring

The aims of these subjects are to introduce and practice research skills which will enable the student to formulate, design and conduct a research project, to analyse and interpret research data and write a scientific report. Additionally there will be an introduction to costing projects, presenting findings to different audiences and media releases. A start will be made on the community nutrition project for third semester.

Prerequisites: Nil for PNP151; PNP151 for PNP251 Credit Points: PNP151-4, PNP251-5

Contact Hours: 1 per week

PNP215 OCCUPATIONAL HEALTH & SAFETY ADMINISTRATION II

Offered: Spring

In this subject, students will develop an understanding of both the legal framework within which the discipline operates and industrial relations concepts and practices in so far as they impinge upon occupational health and safety. Basic statistical techniques will be reviewed as an introduction to the study of concepts of epidemiology applicable to an occupational setting. Credit Points: 12 Contact Hours: 3 per week

PNP415 OCCUPATIONAL HEALTH

Offered: Spring

This subject is designed to introduce students to basic disease processes in humans. They will also develop an understanding of the body's various uptake mechanisms of hazardous workplace agents and basic toxicological principles, including the body's various responses to toxic agents. Examples of acute and chronic occupational diseases will be discussed. **Credit Points:** 12 **Contact Hours:** 3 per week

PNP416 OCCUPATIONAL HEALTH & SAFETY PROJECT

Offered: Spring

This major project gives students an opportunity to research a panticular aspect of their theoretical or practical studies, and thereby develop their research techniques, data collection and evaluation skills and ability to work independently under supervision. By submission of a written project report, they will draw upon many of the skills developed throughout the course.

Credit Points: 12

SVB001 SURVEYING & MAPPING

Offered: Autumn

Instrumentation for land measurement, contour mapping; types of map, availability and interpretation; simple survey techniques; introduction to remote sensing techniques.

Credit Points: 2 Contact Hours: 2 per week

SVB101 SURVEYING & MEASURING

Offered: Autumn

The study program is aimed at problems likely to be encountered by the builder. Basic concepts and applications of surveying and relationship with architecture and building. Instrumentation: level, steel tape, theodolite, compass traversing. Applications of instruments: running a flight of levels, cross sectioning, contours, detail surveying of sites, setting out of procedures as applied to large building projects, tachometry. Office applications: plotting of survey data, computations of volumes. Legal aspects: cadastral system and land tenure system, Titles Office procedures, searching, identification, types of surveys, easements, encochements, interpretation of survey plans.

Credit Points: 2 Contact Hours: 2 per week

SVB111 DATA PRESENTATION I

Offered: Autumn

Drafting instruments and techniques. Tinting and colouring, 'One-off' reproduction, Perspective,

Co-requisite: SVB121 Credit Points: 6 Cont

Credit Points: 6 Contact Hours: 3 per week

SVB121 LAND SURVEYING I

Offered: Autumn

Principles of surveying. Surveying instrumentation. Traversing. Levelling. Elements of tacheometry. Contouring. Elementary theory of error. Plane surveying computations.

Credit Points: 13 Contact Hours: 6 per week SVB203 PROJECT SURVEY

Offered: Spring

Students will be required to carry out two surveys of a building site of approximately one acre in area of undulating ground. The first survey is to be a chain survey with reduced levels taken on a grid to show the nature of the topography. The second survey on an alternative site of the same size is to be done by theodolite traverse.

Prerequisite: SVB101

Credit Points: 4 Contact Hours: 2 per week

SVB211 DATA PRESENTATION II Offered: Spring

Engineering survey drafting; working survey drawings. Basic principles of computer graphics, hardware, software. Programming. Plotter production of maps and plans,

Prerequisites: CSB294, SVB111

Co-requisite: SVB226

Credit Points: 6 Contact Hours: 3 per week

SVB212 DATA PRESENTATION IIA

Offered: Spring

Develops drafting skills and introduces engineering survey drafting and computer graphics.

Prerequisite: SVB111 Co-requisite: SVB226 Credit Points: 2 Contact Hours: 1 per week

📕 SVB226 LAND SURVEYING II

Offered: Spring

Plane surveying computations. Detail surveying, Reconnaissance surveying. Route location. Curve theory. Setting out surveys. Earthworks computation, Elements of cadastral surveying.

Prerequisite: SVB121 Co-requisite: SVB211 Credit Points: 13 Contact Hours: 6 per week

SVB270 LAND ADMINISTRATION I

Offered: Spring

Introduction to the elements of law. Law relating to land title and registration. Crown land administration in Queensland.

Credit Points: 6 Contact Hours: 3 per week

SVB282 SEMINAR I

Offered: Autumn

Preparation of technical papers and reports for both written and oral presentation. Business correspondence. Meeting procedures.

Credit Points: 5 Contact Hours: 2 per week

SVB306 SURVEYING I

Offered: Spring

Introductory surveying methods and instrumentation, use of level and theodolite for gathering and setting out data points, distance measurement, circular curves, areas and volumes, introductory photogrammetry and digital terrain models.

Credit Points: 8 Contact Hours: 3 per week

SVB311 DATA PRESENTATION III

Offered: Autumn

Cadastral plan drawing. Introduction to cartography. Cartographic reproduction. Mapping agencies. Prerequisite: SVB111 Co-requisite: SVB393 Credit Points: 5 Contact Hours: 3 per week

SVB331 OBSERVATIONS & ADJUSTMENTS I

Offered: Autumn

Review of relevant statistical concepts, theory of observations and of random errors, linear and nonlinear functional model, stochastic model, the law of propagation of variances, the error ellipse. Practical applications.

Prerequisites: MAB495, MAB499

Co-requisite: MAB795

Credit Points: 4 Contact Hours: 2 per week

SVB343 PHOTOGRAMMETRY I

Offered: Spring

Introduction to photogrammetry. Photogrammetric optics. Aerial photography. Geometry and use of single photographs. Geometry and use of the sterogram. Students are required to undertake one half day visit to an aerial survey/mapping organisation in the greater Brisbane area.

Prerequisite: PHB170

Credit Points: 6 Contact Hours: 3 per week

SVB352 LAND STUDIES A

Offered: Autumn

Introductory ecology and conservation of resources. Introduction to physical aspects of land. Assessment of physical land parameters. Land classifications. Land utilisation. Sieve mapping and land use surveys. Regional geography. Students are required to undertake a full day ecology field trip to Stradbroke Island and a full day land evaluation exercise in the greater Brisbane area.

Credit Points: 6 Contact Hours: 6 per week

SVB393 LAND SURVEYING III

Offered: Autumn

Cadastral surveying. Field astronomy. Students are required to carry out offcampus field work in the greater Brisbane area or a contiguous shire.

Prerequisites: SVB121, SVB270

Co-requisites: SVB311, SVB573

Credit Points: 10 Contact Hours: 5 per week

SVB412 CARTOGRAPHIC PRACTICE

Offered: Spring

Reprographic processes; colour systems, colour separation and colour correction. Digital mapping techniques; cartographic data structures. Geographical surfaces.

Prerequisite: SVB311

Credit Points: 5 Contact Hours: 3 per week

SVB430 LAND SURVEYING IV

Offered: Spring

Primary traversing. Classical triangulation. Trigonometrical levelling. Precise levelling, Students are required to carry out offcampus field work in the greater Brisbane area or a contiguous shire.

Prerequisite: SVB121

Co-requisites: SVB431, SVB442

Credit Points: 9 Contact Hours: 4 per week

SVB431 OBSERVATIONS & ADJUSTMENTS II

Offered: Spring

Introduction to least squares adjustment. Standard problems I and II, extensive practical applications to linear and non-linear problems with both univariate data sets.

Prerequisite: SVB331

Credit Points: 4 Contact Hours: 2 per week SVB442 GEODETIC COMPUTATIONS

Offered: Spring

Plane coordinate computation. Geometrical geodesy, geometry of spheroid, computation on the spheroid. Theory of map projections. The transverse mercator and UTM. Computations on the Australian Map Grid. **Prerequisites:** MAB795, SVB121

Co-requisite: SVB430

Credit Points: 9 Contact Hours: 4 per week

Offered: Autumn

Principles of construction and operation of analogue stereoplotters. Aerial triangulation. Terrestrial

photogrammetry. Analytical photogrammetry. Students are required to undertake one half day visit to an aerial survey/mapping organisation in the greater Brisbane area.

Prerequisites: SVB343, MAB795

Co-requisites: SVB431

Credit Points: 11 Contact Hours: 6 per week

SVB451 LAND STUDIES B

Offered: Spring

An introduction to the theory of price. Location theory. Land economics.

Credit Points: 5 Contact Hours: 3 per week

SVB470 LAND ADMINISTRATION II

Offered: Autumn

Introduction to government and public administration. Australian public land administration. Private sector land administration.

Credit Points: 4 Contact Hours: 2 per week

SVB473 LAND INFORMATION SYSTEMS I Offered: Autumn

Need for a computerised land information systems review of cadastral systems. Land title systems: the multipurpose cadastre and automation. Survey requirements for land information systems. Design principles, retrieval techniques.

Prerequisites: CSB294, SVB211, SVB393 Co-requisite: SVB573

Credit Points: 5 Contact Hours: 3 per week

SVB535 LAND SURVEYING V

Offered: Autumn

Hydrographic surveying, Topographic surveying, Prerequisites: MAB495, SVB121 Co-requisite: SVB430

Credit Points: 5 Contact Hours: 3 per week

SVB551 LAND VALUATION

Offered: Autumn

Concepts and purposes of valuation. Improvements. Urban and rural valuation. Interest in land, Compensation. Legislation affecting land valuation. Land valuation practice.

Prerequisite: SVB451

Credit Points: 6 Contact Hours: 3 per week

SVB561 LAND DEVELOPMENT PRACTICE I

Offered: Autumn

Land development as an economic activity. Surveys for subdivision design. Site planning. Land use determinants; political, cconomic, social and physical. Traffic aspects affecting subdivision design. Case studies of recent land development projects.

Prerequisites: SVB351, SVB451

Co-requisites: CEB364, SVB551, SVB574 Credit Points: 10 Contact Hours: 6 per week

SVB563 LAND INFORMATION SYSTEMS II Offered: Autumn

Data acquisition, storage and management. Spatial identifiers. Cartographic display and generalisation in an automated system. Implementation of a system. **Prerequisite:** SVB473 Co-requisite: SVB412 Credit Points: 4 Contact Hours: 2 per week

SVB571 CADASTRE

Offered: Autumn

A series of lectures and tutorials dealing with more complex and modern problems involved in the cadastre. **Prerequisite:** SVB393

Credit Points: 4 Contact Hours: 2 per week



SVB573 LAND ADMINISTRATION III

Offered: Autumn

Queensland case law and legislation affecting land and the survey of land including the registration of interests in land, and statutory control of land development. **Prerequisite:** SVB270

Credit Points: 6 Contact Hours: 3 per week

SVB574 LAND ADMINISTRATION IV

Offered: Spring

An introduction to rural and urban sociology. Social aspects of land administration.

Credit Points: 4 Contact Hours: 2 per week

SVB634 TOPICS IN ENGINEERING SURVEYING

Offered: Spring

Lectures, tutorials and practical exercises dealing with the following topics: network reliability, deformation surveys, subsidence monitoring, precision alignment and distance measurement, jig surveys, high rise buildings.

Prerequisite: SVB431 Co-requisite: SVB639

Credit Points: 5 Contact Hours: 3 per week

SVB636 LAND SURVEYING VI

Offered: Spring

Geophysical surveying, Mine surveying, Field astronomical observation.

Prerequisites: PHB170, SVB430

Credit Points: 6 Contact Hours: 3 per week

SVB639 OBSERVATIONS & ADJUSTMENT III

Offered: Spring

Lectures, lutorials and practical exercises dealing with the design, preanalysis and optimisation followed by execution, adjustment and assessment of horizontal (two dimensional) control networks, traverse and level networks (one dimensional).

Prerequisite: SVB431

Credit Points: 4 Contact Hours: 2 per week

SVB640 GEODESY

Offered: Spring

An introduction to history, definitions, the gravity field of the earth, level surfaces, spherical harmonics, variations of the gravity field, gravity measurements, geodetic reference systems, datum transformations, satellite geodesy, satellite doppler surveying, the global positioning system, inertial surveying systems, and geodynamics.

Prerequísites: MEB221, PHB170, SVB430, SVB442

Co-requisite: SVB639

Credit Points: 6 Contact Hours: 3 per week

SVB643 PHOTOGRAMMETRY III

Offered: Spring

Numerical relative and absolute orientation. Independent model and bundle methods of block adjustment for triangulation, close range photogrammetry including nonconventional techniques. Analytical plotters including generation, manipulation and storage of digital data. The use of micro and mini computers in analytical photogrammetry.

Prerequisite: SVB443 Co-requisite: SVB431 Credit Points: 5 Contact Hours: 3 per week

SVB645 REMOTE SENSING

Offered: Spring

Definitions and major systems for remote sensing. Characteristic spectral reflectance of objects and spectral response of sensors, remote sensing acquisition hardware. Remote sensing satellites. Thermography and radar. Data processing for presentation and enhancement. Cartographic correction of remote sensing data for systematic geometric error. **Prerequisite:** SVB343

Credit Points: 5 Contact Hours: 3 per week

SVB664 LAND DEVELOPMENT PRACTICE II

Offered: Spring

A series of lectures covering the preliminaries of development, data assembly, statutory approvals, elements of design, requirements of communication, hydraulic and energy services, factors affecting development costs, financial and technical controls of land development schemes. Projects covering neighbourhood development, residential development, industrial estate development, canal and reclamation estates, commercial development, rural development schemes and design of small towns as are associated with mining ventures.

Prerequisites: SVB561, SVB574

Credit Points: 10 Contact Hours: 6 per week

SVB670 LAND ADMINISTRATION V Offered: Spring

Organisation theory. Development planning procedures. Land development analysis.

Prerequisites: SVB470, SVB451

Credit Points: 5 Contact Hours: 3 per week

SVB680 PROFESSIONAL PRACTICE Offered: Spring

The history of surveying and surveyors. The surveyor in relation to statutory authorities, civil, commercial and taxation laws. The surveyor as employer, employee, expert witness. Surveyor-client-consultant relationships. Professional ethics.

Prerequisite: SVB470

Credit Points: 6 Contact Hours: 3 per week

SVB682 SEMINAR II

Offered: Spring

Each student will prepare and present at least one technically oriented seminar paper in a field germane to surveying.

Prerequisites: SVB282, successful completion of subjects totalling not less than 85 hours of weekly contact time

Credit Points: 2 Contact Hours: 1 per week

SVB683 PROJECT

Offered: Full year

Each student will undertake and report on an approved project in the field of surveying. Field trips on site or to local firms may be required for some projects.

Prerequisite: Successful completion of subjects totalling not less than 85 hours of weeks contact time Credit Points: 4 Contact Hours: 2 per week

SVB684 MAP PRODUCTION PLANNING

Offered: Spring

Planning of photogrammetric projects: specifications, control, costs accuracy. Elements of critical path method.

Prerequisites: SVB412, SVB443

Co-requisite: SVB643 Credit Points: 5 Contact Hours: 3 per week

Credit Points: 5 Contact Hours: 5 per week

SVB685 PROJECT (CARTOGRAPHY)

Offered: Full year

Students are required to undertake a substantial mapping project utilising knowledge gained in photogrammetric, traditional and computer assisted



methods. The project may be topographic or thematic in nature.

Prerequisites: SVB311, SVB412

Co-requisite: SVB443

Credit Points: 8 Contact Hours: 4 per week

SVB688 PROFESSIONAL PRACTICE A

Offered: Spring This subject prepares surveyors for professional practice either as employer or employee.

Prerequisites: Successful completion of subjects totalling not less than 100 hours of weekly contact including SVB573

Credit Points: 4 Contact Hours: 2 per week

SVB694 GEODESY II

Offered: Spring

Review of matrices, the Jacobian matrix, orthogonal matrices, transformations, coordinate transformations, rotations in three dimensions, culer angles, datum transformations, the development of datums. Prerequisite: SVB640

Credit Points: 5 Contact Hours: 3 per week

SVT113 INTRODUCTORY CARTOGRAPHY

Offered: Autumn

Introduction to graphical presentation as a means of communication. Introduction to map projections. Map types, concepts of scale. The Queensland land tenure system. Introduction to map and plan reproduction. Simple plotting.

Credit Points: 8 Contact Hours: 3 per week

SVT115 CARTOGRAPHIC COMPUTATIONS I

Offered: Autumn

Calculation and calculating. Plane geometry. A review of algebraic manipulation with cartographic applications. Matrices and transformations as used in mapping.

Credit Points: 8 Contact Hours: 3 per week

SVT222 SURVEY DRAFTING

Offered: Spring

The Survey Plan Manual. Presentation standard for microfilming. Techniques of survey drafting. Sketches under the Survey Co-ordination Act. Identification survey and detail plans. Water course boundaries. Requirements of DMS, Mines Department and Titles Office and plotting of simple plans for registration.

Prerequisite: SVT113

Credit Points: 8 Contact Hours: 3 per week

SVT225 SURVEYING

Offered: Spring

Basic principles of surveying techniques for providing survey control, especially for mapping purposes. Basic principles of measurement - angular and linear. Historical review of surveying.

Credit Points: 8 Contact Hours: 3 per week

SVT243 PHOTOGRAMMETRY I

Offered: Spring

The photographic process, aerial survey and flight planning; geometry of the single photograph, scale etc; stereoscopy, stereoscopes and parallax bar; simple treatment of space resection; rectification and interpretation. Students are required to undertake one evening visit to an aerial surveying organisation in the greater Brisbane area.

Credit Points: 8 Contact Hours: 3 per week

SVT306 ENGINEERING SURVEYING I Offered: Autumn

A series of lectures, tutorials and practical classes covering fundamental survey concepts, coordinate systems, differential and simple trigonometric levelling; angular measurements; bearing and azimuth; linear measurement by steel tape and stadia.

Credit Points: 7 Contact Hours: 3 per week

SVT315 CARTOGRAPHIC COMPUTATIONS II

Offered: Autumn

Computer systems for the solution of cartographic problems. The structure of cartographic data and its relevance to computer solution. Applications of mathematical languages.

Prerequisite: SVT115

Credit Points: 8 Contact Hours: 3 per week

SVT316 LAND STUDIES I

Offered: Autumn

Introduction to the physical aspects of land. Assessment of physical land parameters, land classification systems. Land evaluation.

Credit Points: 8 Contact Hours: 3 per week

SVT343 PHOTOGRAMMETRY II

Offered: Autumn

Use of stereoplotters, relative and absolute orientation; radial line methods. Terrestrial photogrammetry. Differential rectification and orthophoto construction. Positioning and identification of ground control. Introduction to remote sensing. Students are required to undertake one evening visit to a mapping organisation in the greater Brisbane area.

Prerequisite: SVT243 Co-requisite: SVT115 Credit Points: 8 Contact Hours: 3 per week

SVT426 LAND STUDIES II

Offered: Spring

Introduction to the cultural aspects of land use. Prerequisite: SVT316

Credit Points: 8 Contact Hours: 3 per week

🖬 SVT443 PHOTOGRAMMETRY III

Offered: Spring

The operation of stereoplotting instruments. Aerial triangulation. Compilation of maps. Prerequisite: SVT343

Credit Points: 8 Contact Hours: 3 per week

SVT471 LAND LAWS & REGULATIONS Offered: Autumn

Introduction to the Australian legal system, sources of law. The various acts affecting land and land surveying in Queensland.

Credit Points: 8 Contact Hours: 3 per week

SVT511 CAD SYSTEMS

Offered: Autumn

Principles of digital mapping. The use of an interactive graphics system for mapping operations. Prerequisite: SVT991

Credit Points: 8 Contact Hours: 3 per week

SVT513 DIGITAL MAPPING

Offered: Autumn

Advanced three-dimensional mapping. Analytical plotting systems including digital and graphical mapping, digital evaluation models and unconventional mapping applications. This subject will be project oriented.

Prerequisites: SVT443, SVT315

Credit Points: 8 Contact Hours: 3 per week



SVT623 PROJECT MAPPING

Offered: Spring

Introduction to the role of government and the private sector in project mapping. Planning projects for mapping purposes.

Prerequisites: SVT343, SVT443

Credit Points: 4 Contact Hours: 1.5 per week

SVT626 SEMINAR

Offered: Spring

Preparation of technical papers and reports for both written and oral presentation. Business correspondence. Meeting procedures.

Credit Points: 4 Contact Hours: 1.5 per week

SVT642 MAP PROJECTIONS I

Offered: Spring

Introduction to special trigonometry and its application to map projections. Tangatial, cylindrical, conical and conventional projections using a sphere as reference surface.

Prerequisite: SVT115

Credit Points: 8 Contact Hours: 3 per week

SVT715 CARTOGRAPHY I

Offered: Autumn

Introduction to design. Monochrome design. Map compilation. The process camera for cartographic use. Introduction to lithography.

Credit Points: 8 Contact Hours: 3 per week

SVT742 MAP PROJECTIONS II

Offered: Autumn

Geodesy: geometry of ellipse and ellipsoid; descriptive treatment of gravity. Role of geodesy in mapping. Computations of spheroid. The traverse Mercator projection, UTM and the Australian Map Grid. Computations: geographic to grid and vice versa, computations on the grid.

Prerequisite: SVT642

Credit Points: 8 Contact Hours: 3 per week

SVT815 CARTOGRAPHY II

Offered: Spring

Map production, registration systems, scribing and masking techniques, printing methods including letter press, gravure, offset lithography and silk screen, paper and ink manufacture. Colour theory. Munsell's system, colour synthesis, colour correction and proving. **Prerequisite:** SVT715

Credit Points: 8 Contact Hours: 3 per week

SVT826 CARTOGRAPHIC ADMINISTRATION

Offered: Spring

Introduction to government and public administration. Theory of organisations and its application to mapping agencies.

Credit Points: 8 Contact Hours: 3 per week

SVT915 CARTOGRAPHY III

Offered: Autumn

Standard mapping, economics of standard mapping, standard sheet sizes, map specifications, map aecuracy. Use of orthophotos as control for mapping. Thematic mapping. Special cartographic techniques, air brush tinting, hill shading, etc.

Prerequisite: SVT815

Credit Points: 8 Contact Hours: 3 per week

SVT916 CARTOGRAPHY IV

Offered: Spring

Digital methods in cartography. Compilation of data for computer-assisted cartography. Coordinate systems and digitising. Representation of geographic surfaces. Methods of display and analysis of spatial datas.

Prerequisites: SVT991, SVT315 Credit Points: 8 Contact Hours: 3 per week

SVT945 REMOTE SENSING

Offered: Spring

Introduction to remote sensing. Data and information. Review of electomagnetic propagation. Spectral sensitivity and response. Systems in current use. Cartographic use of remote sensing imagery. Prerequisite: SVT343

Credit Points: 8 Contact Hours: 3 per week

SVT991 COMPUTER GRAPHICS I

Offered: Spring

Basic elements of computer graphics. Systems hardware and software. The AUTO-DRAFT system. Prerequisite: SVT315

Credit Points: 8 Contact Hours: 3 per week

SVT992 COMPUTER GRAPHICS II

Offered: Autumn

Generation of data for computer-assisted mapping. Programming techniques for automated drafting. The HP Graphics language for driving plotters. Prerequisites: SVT991, SVT315

Credit Points: 8 Contact Hours: 3 per week



List of Subjects

These subjects are listed in alphabetical order as a basis for reference to the Outline of Subjects section which is presented in subject code order.

A

ACB383 Accountancy for Administrators ACB180 Accounting for Managers ACB110 Accounting I ACB111 Accounting II ACB181 Accounting Inform Systems I ACN813 Accounting Principles ACB482 Accounting Principles C ACP111 Accounting Principles I ACN183 Accounting Principles (MGMTIII) ACN114 Accounting Research ACB410 Accounting Research ACB310 Accounting Theory & Practice MAB641 Actuarial Mathematics MAB741 Actuarial Mathematics MNB026 Administrat for Geologists MNB483 Administration Analysis MNB382 Administration Research I LWB311 Administrative Law MNA012 Administrative Practice MNB385 Administrative Theory ARP676 Adv Cad for Industrial Designers I ARP677 Adv Cad for Industrial Designers II CMN821 Adv Organisational Communication CMB543 Advanced Advertising CHB610 Advanced Analysis PNB301 Advanced Anatomy ACN152 Advanced Capital Budgeting NSD757 Advanced Clinical Nursing I NSD758 Advanced Clinical Nursing II ISB219 Advanced Cobol ACN112 Advanced Company Accounting LWN001 Advanced Company Law CSB311 Advanced Computer Architectures EET891 Advanced Computing Techniques LWN002 Advanced Constitutional Law CEB503 Advanced Construction Methods EEB621 Advanced Control Systems INN310 Advanced Data Communications Advanced Database ISB203 **ISP301** Advanced Database MNB571 Advanced Economic Theory & Policy EEP125 Advanced Eng Software Tools ESP706 Advanced Engineering Geology ARP613 Advanced Ergonomics I ARP623 Advanced Ergonomics II LWN003 Advanced Family Law MSP120 Advanced Genetic Engineering MSP126 Advanced Genetic Engineering II LPP212 Advanced Graphics CSN350 Advanced Graphics I CSN360 Advanced Graphics II

EEB890 Advanced Inform Tech Topics ISB301 Advanced Information Systems ISP381 Advanced Information Systems CHB631 Advanced Inorganic Chemistry CET735 Advanced Laboratory Testing I CET838 Advanced Laboratory Testing II LPP213 Advanced Landscape Construction LWN004 Advanced Law of Trusts MNN813 Advanced Marketing Management MEB531 Advanced Materials CHB690 Advanced Materials Science MEB680 Advanced Mechanical Design Advanced Nursing Clinical I NSN307 NSN308 Advanced Nursing Clinical II NSN309 Advanced Nursing Clinical III NSN301 Advanced Nursing Education I NSN302 Advanced Nursing Education II NSN303 Advanced Nursing Education III NSN304 Advanced Nursing Management I NSN305 Advanced Nursing Management II PNB667 Advanced Nutritional Physiology MNB462 Advanced Organisation Behaviour PNB406 Advanced Orthoses ISP400 Advanced Programming CMB651 Advanced Public Relations PHD610 Advanced Radiographic Tech PHB576 Advanced Radiographic Technique I Advanced Radiographic Technique II PHB676 ESP705 Advanced Resource Geology ESP704 Advanced Sedimentary & Environ Geol CHB641 Advanced Spectroscopy MNN303 Advanced Strategic Marketing CEB551 Advanced Structural Design ACN171 Advanced Taxation ARB497 Advanced Technology CMP562 Advanced Text Analysis CEP215 Advanced Traffic Engineering MNB420 Advanced Training Techniques CEP276 Advanced Treatment Processes LPP413 Advanced Urban Structure BGP422 Advanced Valuations MSN401 Advances in Medical Lab Science CMB641 Advertising Campaigns CMB364 Advertising Copywriting - Electronic CMB363 Advertising Copywriting - Print CMB542 Advertising Management MEB450 Air Conditioning EEP101 Algorithms for Control Signal Proc PHN101 Analogue Electronics EEB561 Analogue Communications MNB153 Analysis & Methodology in Mgmt MSB621 Analytical Biochemistry

CHN110 Analytical Chemistry I

CHB110 Analytical Chemistry I CHA218 Analytical Chemistry I CHA319 Analytical Chemistry II CHN210 Analytical Chemistry II CHB210 Analytical Chemistry II CHN310 Analytical Chemistry III CHB310 Analytical Chemistry III CHN410 Analytical Chemistry IV CHN510 Analytical Chemistry V MSP104 Analytical Electron Microscopy PND131 Anatomy PNB231 Anatomy & Physiology I PNA170 Anatomy & Physiology I PNN161 Anatomy & Physiology I PNB261 Anatomy & Physiology I PNB232 Anatomy & Physiology II PNA171 Anatomy & Physiology II PNN165 Anatomy & Physiology II PNB262 Anatomy & Physiology II PNB125 Anatomy & Physiology I PNB225 Anatomy & Physiology II PNB131 Anatomy I PND420 Anatomy II PNB132 Anatomy II BEA398 Animal & Plant Techniques BEB411 Animal Physiology BEA011 Animal Physiology MAB924 App Statistical Techniques Application Systems 1SB101 BEA399 Applications in Electron Microscopy PHB608 Applied Acoustics MNB413 Applied Cognitive Psychology BGB642 Applied Computer Techniques **BGB667** Applied Computer Techniques MNB572 Applied Econometrics BTB512 Applied Economic Studies EEB971 Applied Electronics EET678 Applied Electronics **BTB644** Applied Environmental Science LPP514 Applied Environmental Science ESB520 Applied Geochemistry ESB453 Applied Geomorphology MNB430 Applied Health Care Analysis BTB209 Applied Land Science for Designers MAB610 Applied Linear Algebra BTB110 Applied Maths for Designers I BTB210 Applied Maths for Designers II MET201 Applied Mechanics MET210 Applied Mechanics I MET310 Applied Mechanics II MSB611 Applied Microbiology LPP513 Applied Natural Science LPP559 Applied Natural Science **BTB444** Applied Natural Sciences PNP104 Applied Nutrition I PNP108 Applied Nutrition II PHB501 Applied Quantum Mechanics PHB609 Applied Radiation Physics

MNN820 Applied Research & Design **BTN901** Applied Research Methods MNN404 Applied Research Project ASB991 Applied Science Elective I ASB992 Applied Science Elective II ASB993 Applied Science Elective III ASB994 Applied Science Elective IV Applied Science Elective V ASB995 Applied Science Elective VI ASB996 PHB144 Applied Science for Designers I BTB204 Applied Science for Designers II **BEA499** Applns Electron Microscopy ARB791 Approved Employment I ARB792 Approved Employment II ARB793 Approved Employment III ARB794 Approved Employment IV BEB388 Aquacultural I BEB588 Aquacultural II **BEA016** Aquacultural Techniques BTB451 Architectural Interior Systems I BTB551 Architectural Interior Systems II CSN220 Artificial Intelligence CSB324 Artificial Intelligence PHB411 Astronomy CMB662 Audio Visual Seminar ACN122 Audit Sampling ACB311 Auditing ACB312 Auditing & Prof Prac ACB413 Auditing Honours ACN124 Auditing Honours ACN125 Auditing Standards & Practice CMB291 Aust Literature & Film MNB183 Aust National Government A MNB181 Aust National Government B ACB231 Australian Capital Markets CMN825 Australian Communication Contexts MNB330 Australian Health Industry CMB423 Australian Media Institutions MNP508 Australian Policy Studies CMB212 Australian Studies MEB640 Automation I MEB710 Automation II

B

- MAB499 Basic Statistics for Surveyors
- MNB007 Behavioural Science
- CHP150 Biochemical Engineering
- CHP151 Biochemical Engineering II
- MSB310 Biochemical Methodology III
- MSB410 Biochemical Methodology IV
- MSB521 Biochemical Separations
- MSB415 Biochemistry III
- MSB473 Biochemistry III
- MSB416 Biochemistry IV
- MSB471 Biochemistry IV
- MSB520 Biochemistry V
- MSB620 Biochemistry VI

ESP701 Biogeog, Palaeoecology & Evolution

CHB651 Biological Chemistry MSA111 Biological Chemistry I MSA112 Biological Chemistry II BEA297 Biological Data Handling BEB563 Biological Resources **BEA207** Biological Systems BEB207 Biological Systems BEB150 Biology BEB366 Biology & Soils BEA200 Biology B BEB103 Biology IA BEB104 Biology IB BEB303 Biology II PHN202 Biomechanics PND241 Biomedical Science MAB259 Biomedical Statistics III PHB613 Biophysics BGB401 Bldg Econom & Cost Planning BGB406 Bldg Financial Mgmt II BGB014 Bldg Services II Electrical BGB341 Building & Civil Eng Construction CEB430 Building Construction BTB310 Building Construction I ARB295 Building Construction I BTB410 Building Construction II ARB296 Building Construction II **BTB510** Building Construction III ARB395 Building Construction III BTB610 Building Construction IV ARB396 Building Construction IV CET756 Building Construction Practice ARP524 Building Economics ARP600 Building Evaluation & Brief Devel ACB281 Building Financial Management I BGB403 Building Management I BGB404 Building Management II BGB656 Building Research BTB517 Building Services I ARB391 Building Services I BGB013 Building Services I HVAC BGB164 Building Services IA BTB508 Building Services II BTB617 Building Services II ARB392 Building Services II BGB361 Building Services IIA BGB443 Building Services III BGB264 Building Services IIIA BGB161 Building Studies I BGB162 Building Studies II BGB261 Building Studies III BGB262 Building Studies IV CMB105 Business Communication ISB493 **Business Computer Programming Business Computing** ISB392 MNB642 Business Forecasting ACB140 Business Law ACN834 Business Law & Business Ethics ACB440 Business Law Honours

LWN006 Business Plan Taxation ConstraintsMNN403 Business PolicyMNB252 Business StatisticsMNB432 Business Strategy

BC

BTB655 CAD for Industrial Designers SVT511 CAD Systems MET573 CAD/CAM Technology SVB571 Cadastre MAB301 Calculus & Analysis A MAB302 Calculus & Analysis B PNA550 Cardiac Physiology & Anatomy SVT826 Cartographic Administration SVT115 Cartographic Computations I SVT315 Cartographic Computations II SVB412 Cartographic Practice SVT715 Cartography I SVT815 Cartography II SVT915 Cartography III SVT916 Cartography IV ARP642 Case Studies PHN407 Case Studies BEB655 Case Studies MNN815 Case Study Program PNP137 Catering Studies BEB201 Cell Biology BEA202 Cell Structure & Function MSN102 Cellular Basis of Disease BED107 Cellular Effects of Radiation CHA320 Chemprocess Principles I CHA520 Chemprocess Principles II CHB327 Chemical Technology III CHB427 Chemical Technology IV CHB527 Chemical Technology V CHB627 Chemical Technology VI CHS200 Chemistry CHD148 Chemistry CHB991 Chemistry Course Elective 1 CHB992 Chemistry Course Elective 2 CHB993 Chemistry Course Elective 3 CHB994 Chemistry Course Elective 4 CHB995 Chemistry Course Elective 5 CHB996 Chemistry Course Elective 6 CHB142 Chemistry I CHB101 Chemistry IA CHB102 Chemistry IB CHB242 Chemistry II CHB201 Chemistry IIA CHB202 Chemistry IIB CHB382 Chemistry III CHA230 Chemistry of Inorganic Mats CHB640 Chemistry VI EEB203 Circuit Analysis EEB101 Circuits & Measurements CET704 Civil Construction Practice CEB304 Civil Eng Design I CEB405 Civil Eng Design II



CEB291 Civil Eng Materials CEB506 Civil Eng Practice II CEB701 Civil Eng Quantities I CEB801 Civil Eng Ouantities II CET585 Civil Engineering Drafting CET387 Civil Engineering Drafting A CEB102 Civil Engineering I CET195 Civil Engineering I CEB501 Civil Engineering Practice I CET703 Civil Engineering Practice I CET802 Civil Engineering Practice II CET286 Civil Office Practice CET287 Civil Office Practice A LWB404 Civil Procedure CEB220 Civil Systems I CEB421 Civil Systems II MAB635 Classical Theoret Mechanics MSA441 Clin Microbiol Techs III MSA442 Clin Microbiol Techs IV MSB756 Clinical Bacteriology VI MSA471 Clinical Biochem Techs III MSA472 Clinical Biochem Techs IV MSN510 Clinical Biochemistry I MSN610 Clinical Biochemistry II MSB718 Clinical Biochemistry V MSB719 Clinical Biochemistry VI PND752 Clinical Biomechanics MSN513 Clinical Immunology I **OPB505** Clinical Optometry V **OPB605** Clinical Optometry VI **OPB705** Clinical Optometry VII **OPB805** Clinical Optometry VIII PNB665 Clinical Physiology PND340 Clinical Physiology I PND540 Clinical Physiology II PND640 Clinical Physiology III PNB303 Clinical Podiatry I PNB412 Clinical Podiatry II PNB504 Clinical Podiatry III PNB603 Clinical Podiatry IV NSB112 Clinical Practice I NSD122 Clinical Practice IA NSD123 Clinical Practice IB NSB212 Clinical Practice II NSD222 Clinical Practice IIA NSD223 Clinical Practice IIB NSD322 Clinical Practice IIIA NSD323 Clinical Practice IIIB PHD577 Clinical Practice IIID NSD422 Clinical Practice IVA NSD423 Clinical Practice IVB PHD677 Clinical Practice IVD PHD587 Clinical Practice IVT NSD522 Clinical Practice VA NSD523 Clinical Practice VB NSD622 Clinical Practice VIA NSD623 Clinical Practice VIB PHD687 Clinical Practice VT

PHB279 Clinical Radiography I PHB379 Clinical Radiography II PHB479 Clinical Radiography III PHB579 Clinical Radiography IV PHB679 Clinical Radiography V PHB289 Clinical Radiotherapy I PHB389 Clinical Radiotherapy II PHB489 Clinical Radiotherapy III PHB589 Clinical Radiotherapy IV PHB689 Clinical Radiotherapy V NSD759 Clinical Teaching PHN157 Clinical Ultrasound I PHN257 Clinical Ultrasound II PHN357 Clinical Ultrasound III ESB607 Coal Geology CEB561 Coastal Engineering MAB920 Coding & Encryption Techniques ISP410 Collection Build & Use I ISP420 Collection Build & Use II MNB121 Colloquial Japanese ACB341 Commercial & Securities Law LWN007 Commercial Arbitration LWB303 Commercial Law ACN175 Commercial Law Honours LWN008 Commercial Leases LWN013 Commercial Remedies CMB521 Communic & Public Opinion CMB321 Communic in Small Groups CMB134 Communication CMN811 Communication & Culture CMN810 Communication & Society CMP007 Communication Concepts CMN720 Communication Evaluation CMB135 Communication for Engineers CMN824 Communication Policy & Planning CMB211 Communication Research CMN813 Communication Strategies CMA133 Communication Techniques EET560 Communications Engineering I EET760 Communications Engineering II EEB961 Communications Techniques EET860 Communications Technology NSD780 Community Nursing 1 NSD781 Community Nursing II CMB351 Community Relations ACB210 Company Accounting ACB342 Company Law & Practice LWB401 Company Law & Partnership ACN119 Company Secretarial Practice MNB683 Comparative Administration ACB352 Comparative Financial Systems CMB572 Comparative Journalism MNB586 Comparative Politics CSN110 Compiler Construction CSN340 Compiler Laboratory PHD580 Complementary & Evolving Techs I PHD680 Complementary & Evolving Techs II PHB583 Complementary & Evolving Techs



PHD572 Complementary Imaging Techs ASP702 Complementary Studies CET894 Computations A PHB681 Computed Tomography Imaging LPP519 Computer Aided Data Analysis MET920 Computer Aided Design & Drafting CET887 Computer Aided Drafting ISB180 Computer Applications **BEA349** Computer Applications in Biology LPP335 Computer Applications in Planning LPP418 Computer Applications in Planning PHB585 Computer Assisted Treatment Plan I PHB685 Computer Assisted Treatment Plan II ACP: 121 Computer Auditing IS6. 23 Computer Based Inform Systems MEB977 Computer Control of Manuf Systems EEB922 Computer Controlled Systems MNB152 Computer Data Analysis SVT991 Computer Graphics I SVT992 Computer Graphics II EEP103 Computer Hardware & Interfacing MEB976 Computer Integrated Manufacturing **EET690** Computer Organisation EET490 Computer Packages CSB294 Computer Programming EET790 Computer Programming I CST390 Computer Programming I EET791 Computer Programming II ISP401 Computer Project CSN200 Computer Security ACB360 Computer Security & Audit BGB455 Computer Software Applications BGB451 Computer Software Applications I BGB452 Computer Software Applications II CSB101 Computer Systems I CSB281 Computer Systems I CSB201 Computer Systems II CSB282 Computer Systems II ISB492 Computerised Accounting Systems LWB482 Computers & the Law CHA410 Computers in Chemistry CSB262 Computing CSA165 Computing INB350 **Computing Practice** Computing Practice INB360 INB001 Computing Practice (NOTE) I Computing Practice (NOTE) II INB002 ISB911 Computing Project I ISB912 Computing Project II NSN102 Concepts for Advanced Clinical Nurs NSD121 Concepts for Nursing Practice I NSD221 Concepts for Nursing Practice II NSD321 Concepts for Nursing Practice III NSD421 Concepts for Nursing Practice IV NSD521 Concepts for Nursing Practice V NSD621 Concepts for Nursing Practice VI CMN709 Concepts in Communication CEB532 Concrete & Masonry Structures

CET655 Concrete & Steel Design CET435 Concrete Practice CEB202 Concrete Structures CEB306 Concrete Structures II CEB231 Concrete Technology LWB407 Conflict of Laws BTN301 Conservation & Reuse in Urban Des ARP602 Conservation of Historic Interiors BTB649 Conservation Theory LPP505 Conservation Theory LWB203 Constitutional Law BGB151 Construction I BGB154 Construction II BGB153 Construction II BGB253 Construction III BGB254 Construction IV CET606 Construction Management CEP107 Construction Management & Economics CEB305 Construction Planning & Economics CEB307 Construction Practice MNB392 Consumer Behaviour **OPB617** Contact Lens Studies VI OPB717 Contact Lens Studies VII MNN601 Contemporary Health Care Issues CMB311 Contemporary Social Issues EEB520 Control Engineering EEB620 Control Systems & Analysis EET420 Control Systems I EET522 Control Systems II ACB220 Cost Accounting BGP429 Cost Management & Economics BGB646 Cost Planning & Cost Control BGB647 Cost Planning & Cost Control I BGB648 Cost Planning & Cost Control II MNB666 Counselling for Health Professionals CMB461 Creative Writing LWB202 Criminal Law & Procedure PHN152 Cross-sectional Anatomy LPP201 Cultural Values BGP430 Current Issues MNN805 Current Issues in Aust Management A MNN806 Current Issues in Aust Management B CMN823 Current Issues in Communication NSD738 Curriculum Development MSA465 Cytological Techniques III MSA466 Cytological Techniques IV

🖾 D

CSP790 Data Base **INP270** Data Communications INB270 Data Communications EEP124 Data Communications INB285 Data Communications ISP101 Data Design & Processing Data Presentation I SVB111 SVB211 Data Presentation II SVB212 Data Presentation IIA SVB311 Data Presentation III

CSB323 Data Security ISB202 Database & Procedural Languages [SB283 Database & Procedural Languages ISB302 Database Management MNN202 Decision Support Systems LPP215 Department Field Trip LPP420 Dept Field Trip & Workshop PND701 Dermatology PNB502 Dermatology EET880 Design MEB381 Design H MEB773 Design for Manufacturing I MEB974 Design for Manufacturing II ARB193 Design I BTB300 Design I EEB587 Design I MEB101 Design I ARB194 Design II ARP521 Design II BTB400 Design II EEB788 Design II ARB293 Design III BTB500 Design III EEB887 Design III MEB483 Design III ARB294 Design IV BTB600 Design IV EEB888 Design IV ARB693 Design IX BGP417 Design Management MEB975 Design of Manufacturing Systems MEB981 Design of Matls Handling Systems MEB980 Design of Power Transmssn Systems CEB401 Design Project BTB307 Design Science I ARB289 Design Science I BTB407 Design Science II ARB288 Design Science II BTB527 Design Science III ARB389 Design Science III BTB627 Design Science IV ARB388 Design Science IV ARB393 Design V ARB394 Design VI ARB493 Design VII ARB593 Design VIII MNB250 Developmental Psychology MAB612 Differential Equations EEB967 Digital Communications EET676 Digital Electronics PHB573 Digital Imaging Modalities SVT513 Digital Mapping EEB272 Digital Principles EEB968 Digital Signal Processing CMB544 Direct Response Advertising MAB216 Discrete Mathematics MSB430 Disease Processes IV OPB527 Diseases of the Eye V

OPB627 Diseases of the Eve VI MSN530 Dissertation NSN403 Dissertation ACB411 Dissertation BGP442 Dissertation ACN950 Dissertation CMN910 Dissertation I CMN911 Dissertation II CSN210 Distributed Systems MNB633 Distribution Management PHB481 Dosimetry LWB414 Drafting & Legal Transactions MET121 Drafting Practice IA MET221 Drafting Practice IIA CEP361 Draining Engineering ARP652 Dsgn Mgmt & Decision Theory MEB111 Dynamics MEB010 Dynamics 1 MEB012 Dynamics 2

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ESB411	Earth Resources
ESB101	Earth Science IA
ESB102	Earth Science IB
ESB201	Earth Science IIA
ESB202	Earth Science IIB
MNP218	Economic Analysis
ESB513	Economic Geology V
ESB367	Economic Mineral Deposits
MNB614	Economic Seminars
BGB343	Economics of Construction Industry
BTB552	Economics of Industrial Production
MNB591	Economics of Information
MNB639	Economics of Strategic Management
MNB535	Economics of the Service Sector
BTB561	Economics of Town Planning
LPP562	Economics of Town Planning
LPP209	Ecosystems
NSD786	Educational Interactions
NSD734	Educational Psychology
MET123	Elect Eng Drawing IA
MET 223	Elect Eng Drawing IIA
CSB999	Elective I
ARB597	Elective I
CSB998	Elective II
ARB697	Elective II
CSB997	Elective III
CSB996	Elective IV
BGB661	Elective Research Project I
BGB662	Elective Research Project II
ARP522	Elective Study I
ARP531	Elective Study II (Thesis)
CSB995	Elective V
EEB954	Electrical Energy Utilisation
EET100	Electrical Eng Computations
EET111	Electrical Engineering I
EET211	Electrical Engineering II
EET350	Electrical Engineering III



EEB209 Electrical Engineering IIM EET650 Electrical Equipment EET552 Electrical Machines EEB404 Electrical Machines EEB553 Electrical Power Equipment EEB400 Electrical Power Systems EET642 Electrical Power Systems I EEB531 Electrical Power Transmission EET500 Electrical Technology PHB502 Electromagnetic Field Theory EEB202 Electromagnetics MSB421 Electron Microscopy EEB371 Electronic Devices EET570 Electronic II PHN350 Electronics EEB471 Electronics PHB308 Electronics I EET270 Electronics I PHB408 Electronics II PHB508 Electronics III EEB302 Electrotechnology MNB120 Elementary Japanese LPP352 Employment & Industry MET850 Energy Management CHB628 Energy Technology CEB393 Eng Investigating & Reporting I CEB492 Eng Investigating & Reporting II CEP131 Eng Management & Administration MAB893 Eng Mathematics III MAB894 Eng Mathematics IV CHB344 Engineering Chemistry M MET101 Engineering Drawing MET120 Engineering Drawing I MET220 Engineering Drawing II MET320 Engineering Drawing III MET420 Engineering Drawing IV EEB430 Engineering Fields ESB653 Engineering Geology EST219 Engineering Geology MEB121 Engineering Graphics EEB820 Engineering Management MET140 Engineering Materials I MET433 Engineering Materials II MAB193 Engineering Mathematics I MAB493 Engineering Mathematics II CET135 Engineering Mechanics CEB184 Engineering Mechanics I CEB185 Engineering Mechanics II PHB132 Engineering Physics IA PHB232 Engineering Physics IIA MEB772 Engineering Project Appraisal CEB364 Engineering Science II CEB504 Engineering Science III ENS100 Engineering Skills SVT306 Engineering Surveying I IFB001 English for Academic Purposes INB099 English for Academic Purposes CMB108 English for Technologists

BTB543 Environ Studies V- Impact Analysis BTB643 Environ Studies VI - Issues & Ethics **BTB403** Environ Studies IV - Eng Impacts MNP421 Environment of Business CHB411 Environmental Analyt Chem **BEA403** Environmental Biology CHB691 Environmental Chemistry ARP502 Environmental Communications PNN101 Environmental Health PNB202 Environmental Health II PNB203 Environmental Health III PNB204 Environmental Health IV PNB205 Environmental Health V PNB206 Environmental Health VI ARB387 Environmental Impact Studies BEB447 Environmental Monitoring LPP511 Environmental Psychology BTB103 Environmental Studies I **BTB203** Environmental Studies II BTB303 Environmental Studies III - Evaluation MSD680 Epidemiology MSN150 Epidemiology & Research Strategies CET776 Equipment Operation & Maintenance LWB301 Equity BTB220 Ergonomics I BTB320 Ergonomics II BTB420 Ergonomics III BGB446 Estimating I BGB540 Estimating II NSD788 Ethics for Health Profs NSD737 Evaluation in Nursing Education LWB402 Evidence MAB258 Experimental Design BEB358 Experimental Design PHB316 Experimental Physics III PHB416 Experimental Physics IV PHB516 Experimental Physics V ISB313 Expert Information Systems ISP313 Expert Information Systems CSB325 Expert Systems ESB533 Exploration Geochemistry ESB633 Exploration Geophysics MNB411 Export Management MSN001 External Elective (Supporting) MSN002 External Elective (Supporting) MSN003 External Elective (Supporting) MSN004 External Elective (Supporting) BSN001 External Elective Study - M Bus BSN002 External Elective Study - M Bus BSN003 External Elective Study - M Bus BEA090 External Projects I BEA099 External Projects II ACN127 External Reporting Issues ISB215 External Sources of Information

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MEB700 Failure Analysis LWB302 Family Law ESB677 Field Excursions ESB573 Field Excursions V ESB577 Field Excursions V ESB673 Field Excursions VI NSD772 Field Experience NSD773 Field Experience NSD774 Field Experience NSD771 Field Experience Field Experience ISP428 CET306 Field Practice IA CET405 Field Practice IIA BEB390 Field Studies I BEB490 Field Studies II LPP319 Field Studs & Workshops I ESB397 Field Techniques BEA498 Field Techniques MAB782 Field Theory BGP437 Field Trip CEB404 Field Trip CMB561 Film & Television Script Writing CMB592 Film & Video Tape Editing ARP601 Film, TV & Design for Theatre ACB430 Finance Honours ACN151 Finance Honours ACB412 Financial Accounting Honours ACNII1 Financial Accounting Honours MNB582 Financial Administration ACB345 Financial Institutions - Law ACB350 Financial Institutions - Lending ACB351 Financial Institutions - Management ACN835 Financial Management ACB481 Financial Management for Engineers ACB230 Financial Management I ACB331 Financial Management II MAB442 Financial Mathematics ACN155 Financial Modelling ACB659 Financial Modelling ACN126 Financial Reporting ACN156 Financial Risk Management MEB911 Finite Element Analysis CEB520 Finite Element Methods CEB260 Fluid Mechanics MET961 Fluid Mechanics MEB660 Fluid Power MET960 Fluid Power MEB960 Fluid Systems Design MEB361 Fluids I MEB462 Fluids II MEB464 Fluids III PND421 Food & Nutrition CHA580 Food Chemistry I CHA680 Food Chemistry II MSP152 Food Microbiology MSB510 Food Microbiology PNP111 Food Studies 1 PNP112 Food Studies II CSN320 Formal Secure Systems CET856 Formwork Design

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BGB601 Formwork Design & Construct LPP206 Forum Workshop A LPP207 Forum Workshop B MNB461 Foundation HR Competencies PNP143 Foundation of Nutrition CSB200 Foundations of Computing I CSB290 Foundations of Computing I CSB210 Foundations of Computing II CSB292 Foundations of Computing II NSB110 Foundations of Nursing Practice I NSB111 Foundations of Nursing Practice II MSB761 Fundamentals of Medicine I MSB762 Fundamentals of Medicine II CMB191 Fundamentals of Photography CMP590 Fundraising Campaigns CMP352 Fundraising Principles BTB331 Furniture & Fittings I **BTB631** Furniture & Fittings IV BTB431 Furniture & Fittings II BTB531 Furniture & Fittings III

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MNB130 General Psychology PHB276 General Radiography I PHB376 General Radiography II MSB630 Genetic Engineering BEB435 Genetics ESB403 Geochemistry SVB640 Geodesy SVB694 Geodesy II SVB442 Geodetic Computations ESB487 Geological Field Studies Geological Investigations ESB687 ESA310 Geology ESP702 Geology Case Studies I Geology Case Studies II ESP703 ESB519 Geology for Engineers ESB437 Geophysics CEB440 Geotechnical Engineering I CEB541 Geotechnical Engineering II CEB542 Geotechnical Engineering III ACB320 Government Accounting MNB686 Government & Business MNN203 Government Business Relations Government Documents ISP419 MNB231 Government Economic Policy ACB330 Government Finance MNB451 Government, Business & Law MNB613 Govt Policy & the Tourism Industry BTB645 Grading MNP333 Graduate Project ARB911 Graphic Design I ARB912 Graphic Design II CSB321 Graphics EEP122 Graphics & Computer Vision NSN201 Grief & Bereavement



MSA481 Haematological Techs III MSA482 Haematological Techs IV MSN511 Haematology I MSN611 Haematology II MSB426 Haematology IV MSB726 Haematology V MSB727 Haematology VI PHN204 Health & Occupational Physics MNB518 Health Admin Project ACB280 Health Administration Finance MNB331 Health Care Economics I MNB431 Health Care Economics II MNB618 Health Computer Systems MNB505 Health Management I MNB605 Health Management II MNN602 Health Planning, Mgmt & Evaluation MNB534 Health Services Evaluation MNB543 Health Services Planning MEB550 Heat Transfer EEB951 High Voltage Equipment CEB312 Highway Engineering MSA463 Histological Techs III MSA464 Histological Techs IV MSN512 Histopathology I MSN612 Histopathology II MSB492 Histopathology IV MSB792 Histopathology V MSB793 Histopathology VI ARP603 Historic Technologies ARB491 History of Architecture & Art III ARB591 History of Architecture & Art IV LPP503 History of Landscape Design LPP560 History of Planning ARB197 History of the Built Environ I ARB198 History of the Built Environ II BTB102 History of the Built Environment I **BTB202** History of the Built Environment II ARP671 History, Theory & Criticism of Ind Des INN210 Honours Project II BTB656 Housing & Community Services LPP566 Housing & Community Services PNB163 Human Anatomy I PNB363 Human Anatomy III PNP116 Human Factors MNP123 Human Factors in Quality PND470 Human Genetics & Development PNB305 Human Nutrition I PNB435 Human Physiology PNB115 Human Physiology I PNB116 Human Physiology II MNB587 Human Resource Policies MNB361 Human Resources & the Organisation NSN203 Human Sexuality & Health CET365 Hydraulic Engineering CEB360 Hydraulic Engineering I CEB460 Hydraulic Engineering II CEB560 Hydraulic Engineering III

BEA060Hydrobiological TechniquesESB523HydrogeologyESB527HydrogeologyCEB361HydrologyBGB345Hygiene & Sanitation

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ESB417 Igneous & Metamorphic Petrology II ESB547 Igneous & Metamorphic Petrology III PHB578 Image Interpretation I PHB572 Image Recording & Evaluation PNB425 Imaging Anatomy MSB420 Imaging Pathology MSB713 Immunohaematology VI MSA435 Immunological Techniques III MSB412 Immunology IV MSB712 Immunology V NSN205 Independent Study MNB523 Independent Study HRD MNB561 Independent Study HRM MNB515 Independent Study Unit, Ind Rel CMN831 Individual Research CHA610 Industrial Analysis CHA368 Industrial Chemistry ARP672 Industrial Design I ARP673 Industrial Design II ARP674 Industrial Design Research I ARP675 Industrial Design Research II EEB573 Industrial Electronics EET870 Industrial Electronics ENT100 Industrial Employment I ENT200 Industrial Employment II ENT300 Industrial Employment III ENT400 Industrial Employment IV ENT500 Industrial Employment V ENT600 Industrial Employment VI ENT700 Industrial Employment VII ENT800 Industrial Employment VIII MEB670 Industrial Engineering I MEB771 Industrial Engineering II ASB300 Industrial Experience I ASB310 Industrial Experience I ASB320 Industrial Experience I ASB330 Industrial Experience I SVB199 Industrial Experience I ASB400 Industrial Experience II ASB410 Industrial Experience II ASB420 Industrial Experience II ASB430 Industrial Experience II Industrial Experience II SVB299 MEB600 Industrial Experience III SVB399 Industrial Experience III LWB308 Industrial Law MNB043 Industrial Management MET733 Industrial Metallurgy MEB810 Industrial Noise & Vibration MET971 Industrial Practice CMB451 Industrial Press



MNB018 Industrial Relations MNB363 Industrial Relations I MNB630 Industrial Relations II INB280 Industrial Training Experience MET933 Industrial Tribology MEB400 Industrial Visits CHB660 Industrial Visits LWS004 Info Managers & the Law Info Systems Analysis & Design I ISB201 Info Systems Analysis & Design II **ISB210** Info Agency Mgt & Serv I ISP413 Info Agency Mgt & Serv II ISP423 Info Storage & Retrieval I ISP411 Info Storage & Retrieval II ISP421 Info Systems Analysis & Design II **ISB290** ISB281 Info Systems Analysis & Design I Info Users & Services I ISP412 ISP422 Info Users & Services II **ISP418** Information & Referral Services Information Brokerage ISP429 ASP701 Information Retrieval Skills **ISB316** Information Support Systems Information Systems I ISN100 ISN300 Information Systems II Information Systems Management **ISB314** ISP314 Information Systems Mgmt EEB661 Information Theory & Noise MNN816 Initial Project in Management MNB514 Innovation & Marketing Management CHB230 Inorganic Chemistry II CHB430 Inorganic Chemistry IV CHB530 Inorganic Chemistry V LWB307 Insolvency Law CHB510 Instrumental Analysis CHA318 Instrumental Analytical Chem CHA240 Instrumental Techniques PHB405 Instrumentation PHN302 Instrumentation ACB335 Insurance Risk Management EEB473 Integrated Circuits EEB972 Integrated Electronic Techniques BTB335 Interior Technology I BTB435 Interior Technology II BTB535 Interior Technology III BTB635 Interior Technology IV ACN123 Internal Auditing MNB533 Internat Health Care Syst ACN118 International Accounting MNB626 International Economics ACN153 International Finance ACB336 International Finance ACN172 International Law MNN305 International Marketing MNB526 International Marketing MNB504 International Politics & Business MNB661 Interviewing & Counselling MNB111 Intro Psychology for Health Prof MNB184 Intro to Admin & Political Analysis

CMB163 Intro to Audio-Vis Communic CHB002 Intro to Engineering Chemistry MEB171 Intro to Manufacturing CMB452 Intro to Public Relations MAB331 Intro Vector Analysis CSB100 Intro to Computer Science LPP404 Intro to Theories of Planning LPS102 Intro to Town Planning LPP561 Intro to Urban Design ISB263 Intro to Computers & Infosystems PNP124 Intro to Dietetics Practice I PNP125 Intro to Dietetics Practice II ARP501 Intro to Facilities Management PHN102 Intro to Medical/Stats Computing LPP321 Intro to Theories of Plng CMB241 Introduction to Advertising BEA339 Introduction to Bioculture CSB181 Introduction to Computer Science LPP563 Introduction to Computers CSA259 Introduction to Computing CSB155 Introduction to Computing CSB191 Introduction to Computing ARB299 Introduction to Computing I ARB290 Introduction to Computing II **BTB440** Introduction to Economics CSB291 Introduction to FORTRAN LPP552 Introduction to Graphics BTB235 Introduction to Interior Technology LWB101 Introduction to Law LPP510 Introduction to Law MNN100 Introduction to Management LPP564 Introduction to Maps & Air Photos CHA442 Introduction to Occupational Safety MSB120 Introduction to Pathology LPP403 Introduction to Planning Processes LPP315 Introduction to Planning Processes LPP508 Introduction to Practice BTB343 Introduction to Professions BTB151 Introduction to Technology ACB382 Introductory Accounting MSA113 Introductory Biochemistry BEB149 Introductory Biology BEA108 Introductory Biology SVT113 Introductory Cartography CHB001 Introductory Chemistry CHA145 Introductory Chemistry CSB001 Introductory Computing **BTB100** Introductory Design 1 BTB200 Introductory Design II MSD751 Introductory Epidemiology ACB384 Introductory Legal Studies MNB253 Introductory Marketing MAS090 Introductory Mathematics ASB200 Introductory Meteorology MSB530 Introductory Molecular Biology PHB104 Introductory Physics PHA154 Introductory Physics

MNB322 Introductory Training Techniques

BGB466Invest Dec & Fin Strategy IIBGB465Invest Dec & Fin Strategy INSD763Issues in Nursing INSD764Issues in Nursing II

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MET782 Jig & Tool Design CMB673 Journalism Ethics & Issues LWB305 Jurisprudence

PHD460 Kinesiology & Biomechanics PHB252 Kinesiology & Biomechanics

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CHN445 Laboratory Automation CHB618 Laboratory Automation CSB259 Laboratory Computing I MSB405 Laboratory Computing III MSA123 Laboratory Instrumentation I MSA124 Laboratory Instrumentation II CHN345 Laboratory Management MSN405 Laboratory Medicine CET837 Laboratory Practice CET235 Laboratory Practice A CHA111 Laboratory Techniques MSB145 Laboratory Technology II MSB445 Laboratory Technology III MNB636 Labour Economics MNN201 Labour-Management Relations SVB270 Land Administration I SVB470 Land Administration II SVB573 Land Administration III SVB574 Land Administration IV SVB670 Land Administration V LWB312 Land Contracts BTB546 Land Development I BTB646 Land Development II SVB561 Land Development Prac I SVB664 Land Development Prac II BGB626 Land Development Studies LPP524 Land Grading SVB473 Land Information Systems I SVB563 Land Information Systems II LWB201 Land Law ESB477 Land Law & Mining Applications SVT471 Land Laws & Regulations SVB352 Land Studies A SVB451 Land Studies B SVT316 Land Studies I SVB351 Land Studies I SVT426 Land Studies II SVB121 Land Surveying I SVB226 Land Surveying II SVB393 Land Surveying III SVB430 Land Surveying IV

SVB535 Land Surveying V SVB636 Land Surveying VI BTB547 Land Use Generation LPP515 Land Use Generation LPP551 Land Use Generation BTB647 Land Use Policies SVB551 Land Valuation BTB511 Landscape Construction LPP523 Landscape Construction LPP205 Landscape Design LPP214 Landscape Engineering **BTB565** Landscape Graphics LPP520 Landscape Graphics LPP210 Landscape Management A LPP211 Landscape Management B LPP204 Landscape Planning LPP208 Landscape Practice CSB212 Languages & Language Processing CSP212 Languages & Language Processing ACB380 Law & Communication LWS003 Law & Environmental Health BTN402 Law & Legislation in Urban Design BGB243 Law 1 - Building Acts & Regulations BGB342 Law 2 - Principles & Property BGB440 Law 3 - Building Contracts BGB543 Law 4 - Torts & Arbitration BGB643 Law 5 - Commercial Law LWB005 Law Elective LWB006 Law Elective NSD720 Law for Nurse Managers LWD001 Law for Nurses ACB240 Law of Business Associations LWB102 Law of Contract **BTB609** Law of the Built Environment ARB386 Law of the Built Environment LWN009 Law Rel to Build & Eng Contracts BGB668 Law VI Valuation of Land BGB243 Law I Building Acts & Regulations LWP001 Legal Practice LWB104 Legal Research & Writing I LWB415 Legal Research & Writing II LWN010 Legislation Lib Service to Yng People ISP414 CHA991 Liberal Studies Elective 1SP430 Library Systems Evaluation BTB132 Light & Colour Studies MAB310 Linear Algebra MAB410 Linear Algebra MAB710 Linear Algebra B ACN174 Liquidations & Receiverships CMB161 Literature & Communication CMB465 Literature, Language & Society LWN011 Litigation MNB482 Local Government LWB306 Local Government Law MNB684 Local Govt Admin Pract II MNB584 Local Govt Admin Practice I

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MET580 Machine Elements I MET680 Machine Elements II MNB251 Macroeconomic Analysis MNB472 Macroeconomic Policy MNB372 Macroeconomic Theory CMB462 Magazine & Feature Writing INN400 Major Project - Part I INN450 Major Project - Part II **MNB004** Management MNB040 Management MNP054 Management & Marketing MNB412 Management & Organisations ARP523 Management & Law I ARP532 Management & Law II MNB302 Management for Info Technologists MNB203 Management II ISN156 Management Information Systems ISB156 Management Information Systems MND222 Management Perspectives MNB405 Management Science A ACB321 Managerial Accounting ACB420 Managerial Accounting Honours ACN231 Managerial Accounting Honours ACN232 Managerial Accounting Issues A ACN233 Managerial Accounting Issues B MNN106 Managerial Economics MNB651 Managerial Strategy MNP113 Managing Communications for Quality MEB471 Manufacturing Engineering I MEB571 Manufacturing Engineering II MEB673 Manufacturing Engineering III MEB173 Manufacturing Practice MEB900 Manufacturing Project MEB978 Manufacturing Systems Engineering MEB370 Manufacturing Systems I MEB472 Manufacturing Systems II MET170 Manufacturing Technology BTB315 Manufacturing Technology I BTB415 Manufacturing Technology II BTB558 Manufacturing Technology III BTB658 Manufacturing Technology IV BTB135 Map & Air Photo Interpretation LPP521 Map & Air Photo Interpretation SVB684 Map Production Planning SVT642 Map Projections I SVT742 Map Projections II BTB556 Marketing MNB091 Marketing MNB525 Marketing Decision Making MNB391 Marketing Management MNN204 Marketing Methods & Practices MNB592 Marketing Research CMN710 Mass Communication A CMN711 Mass Communication B BGB103 Material Science I BGB104 Material Science II BGB247 Material Science III

MEB339 Materials & Manufacturing Project MET141 Materials (Civil) MET600 Materials for Electrical Engineers MEB133 Materials I MEB230 Materials II MEB231 Materials III CHB590 Materials Science MEB332 Materials Selection MEB031 Materials Technology MAB788 Mathematical Statistics MAB417 Mathematical Statistics A MAB418 Mathematical Statistics B MAB317 Mathematical Statistics I MAB318 Mathematical Statistics IIA MAB608 Mathematical Statistics IIB MAB907 Mathematical Stats IIIA MAB908 Mathematical Stats IIIB MAS091 Mathematics MAB298 Mathematics & Statistics MAS092 Mathematics A MAB297 Mathematics for Construct MAB251 Mathematics I MAB211 Mathematics IA MAB224 Mathematics IB MAB225 Mathematics IC MAB226 Mathematics ID MAB411 Mathematics IIA MAB412 Mathematics IIB MAB425 Mathematics IIC MAB342 Mathematics of Finance BGB005 Measurement of Construction I BGB131 Measurement of Construction IA BGB245 Measurement of Construction IB BGB006 Measurement of Construction II BGB246 Measurement of Construction IIB BGB009 Measurement of Construction III BGB545 Measurement of Construction IV BGB010 Measurement of Construction IV BGB461 Measurement of Construction V BGB462 Measurement of Construction VI BGB524 Measurement of Construction VII LPP522 Measurement of Sites BGB444 Mechanical & Electrical Estimating MEB489 Mechanical Design Project MET940 Mechanical Measurements MET601 Mechanical Plant MET421 Mechanical Project IA MAB735 Mechanics MEB313 Mechanics I MEB610 Mechanics II LWB480 Media Law CMB541 Media Strategy CMB562 Media Text Analysis PHN206 Medical Imaging PHN304 Medical Imaging Science PHA213 Medical Instrumentation II PHB475 Medical Radiation Computing I

PHB575 Medical Radiation Computing II

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MNB319 Medical Record Admin I MNB419 Medical Record Admin II MNB519 Medical Record Admin III MNB619 Medical Record Admin IV MNB320 Medical Terminology PHB473 Medical Ultrasound NSN105 Medical/Surgical Nursing I NSN106 Medical/Surgical Nursing II Medical/Surgical Nursing III NSN107 PNP142 Medicine PND469 Medicine PNB410 Medicine LWS001 Medicine & the Law PHB387 Megavoltage Therapy I PHB487 Megavoltage Therapy II MAB941 Methods of Math Economics MAB921 Meths of Mathemat Physics A MNN808 Mgmt, Technology & Social Change PHN301 Microprocessors ISB385 Microcomputer Software Applications MSB511 Microbial Physiology & Metabolism V MSB610 Microbial Technology MSB150 Microbiology MSD742 Microbiology MSB201 Microbiology MSB101 Microbiology I MSB301 Microbiology I MSD360 Microbiology I MSA161 Microbiology I MSN515 Microbiology I MSB102 Microbiology II MSB402 Microbiology II MSD460 Microbiology II MSA162 Microbiology II MSN615 Microbiology II MSB450 Microbiology III MSB103 Microbiology III MSB454 Microbiology IV MSB755 Microbiology V ISB382 Microcomputer Applications EEB273 Microcomputers in Engineering MNB151 Microeconomic Analysis MNB471 Microeconomic Policy MNB371 Microeconomic Theory EET590 Microprocessor Systems EEB472 Microprocessors **BEA198** Microscopy Techniques Microwave & Antenna Technology EEB662 EEB962 Microwave Systems Engineering Mineragraphy & Mining Geol ESB613 Mineral Assemblages ESB320 ESB517 Mineral Exploration LWB481 Mineral Law ESB220 Mineralogy ESA510 Mineralogy Techniques ESB617 Mining Geology ESB693 Mining Property Evaluation 1NN300 Minor Project

INN301 Minor Project INN302 Minor Project INN303 Minor Project CSB350 Miscellaneous Studies MAB309 Modern Algebra MAB409 Modern Algebra CMN814 Modern Communication Technologies EET720 Modern Control Technology CMB463 Modern Lit & Film in Soc MSN110 Molecular Basis of Disease MSN101 Molecular Basis of Disease I MSN201 Molecular Basis of Disease II MSP105 Molecular Diagnosis of Disease MNB529 Monetary Economics CMB442 Motivation & Ethics in Advertising MAB601 Multivariable Calculus A MAB602 Multivariable Calculus C CET707 Municipal Engineering CEP128 Municipal Engineering Planning CEP213 Municipal Engineering Practice CEP491 Municipal Engineering Practice CEP109 Municipal Law & Regulations

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CMP421 National Media Institutions CSN330 Natural Language Processing EEB303 Network Theory I EEB401 Network Theory II EEP120 Networks & Distributed Computing PNA750 Neurological Physiology & Anatomy CMB359 Newswriting MEB510 Noise & Vibrations MET511 Noise, Stress & Vibration Practice PHB373 Nuclear Medicine Imaging I PHB680 Nuclear Medicine Imaging II PHB602 Nuclear Physics & Energy MAB718 Numerical Analysis A MAB719 Numerical Analysis B MAB618 Numerical Analysis I MAB619 Numerical Analysis II MAB913 Numerical Analysis III NSN202 Nursing & Health Education Practice NSB120 Nursing in Social Systems I NSB220 Nursing in Social Systems II NSD718 Nursing Management I NSD719 Nursing Management II NSB240 Nursing Practice I NSB241 Nursing Practice II NSD766 Nursing Research PND750 Nutrition, Health & Disease PNN102 Nutrition & Lifestyle MSB631 Nutritional Biochemistry

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- SVB639 Observations & Adjustments III
- SVB331 Observations & Adjustments I
- SVB431 Observations & Adjustments II

PNP115 Occup Health & Safety Admin I PNP215 Occup Health & Safety Admin II PNP415 Occupational Health NSD767 Occupational Health PNB210 Occupational Health & Safety I PNB211 Occupational Health & Safety II PNP416 Occupational Health & Safety Project PHP250 Occupational Hygiene OPB803 Occupational/Public Health Optometry **OPB401** Ocular & Regional Anatomy OPB608 Ocular Pharmacology OPB508 Ocular Physiology ISB303 Office Information Systems ISP383 Office Information Systems BGB552 Office Management PHB683 Oncological Imaging CSB301 Operating Systems MNB551 Operations Management MAB737 Operations Research MAB637 Operations Research IA MAB638 Operations Research IB MAB927 Operations Research IIA MAB928 Operations Research IIB OPB132 Ophthalmic Optics II OPB504 Ophthalmic Optics V ESB317 Optical Mineralogy PHN150 Optics PHB311 Optics & Acoustics PHB240 Optics II PHB340 Optics III OPB509 Optometry V **OPB609** Optometry VI **OPB709** Optometry VII LPP517 Oral Communication Skills BTB344 Oral Presentation CHB150 Organic Chemistry I CHA250 Organic Chemistry I CHB250 Organic Chemistry II CHA350 Organic Chemistry II CHA550 Organic Chemistry III CHB350 Organic Chemistry III CHB351 Organic Chemistry IIIC CHB450 Organic Chemistry IV CHB451 Organic Chemistry IVC CHB550 Organic Chemistry V CHB551 Organic Chemistry VC MNB463 Organisation Development MNB351 Organisational Analysis & Manageent CMP125 Organisational Communication MNN814 Organisational Economics MNN306 Organisational Economics MNN812 Organisational Psychology MNB516 Organisational Sociology PNB411 Orthopaedics PNB420 Orthotic Science I PNB506 Orthotic Science II PND441 Orthotics III PND442 Orthotics IV

PND742 Orthotics VI

PHB587 Orthovoltage & Superficial Therapy

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CMB666 P R Consulting & Management LWN012 Pacific Legal Systems MNB528 Pacific Rim Economic Relations CSP690 Package Development NSN204 Pain: A Nursing Focus CSN310 Parallel Processing EEP121 Parallel & Supercomputing MSD410 Pathology MSA121 Pathology MSN202 Pathology I MSN302 Pathology II NSB252 Pathophysiology MSN306 Pathophysiology MSN304 Pathophysiology I MSN404 Pathophysiology II MNN302 People in Organisations MNB364 Pers Admin Systems/Occ Hlth & Safety ACB480 Personal & Corporate Finance MNP523 Personnel Functions MNB254 Personnel Mgmt & Ind Relations NSD120 Perspective for Nursing Practice I NSD220 Perspectives for Nursing Practice II NSD420 Perspectives for Nursing Practice IV NSD520 Perspectives for Nursing Practice V NSD620 Perspectives for Nursing Practice VI NSD320 Perspectives for Nursing Practice III MSA120 Perspectives in Medicine ESB603 Petroleum & Coal Geology ESB447 Petroleum Geology ESB543 Petrology V PND710 Pharmacology PNB306 Pharmacology SVB343 Photogrammetry I SVT243 Photogrammetry I SVB443 Photogrammetry II SVT343 Photogrammetry II SVB643 Photogrammetry III SVT443 Photogrammetry III CHB180 Physical & Inorganic Chemistry I CHA270 Physical Chemistry I CHB270 Physical Chemistry II CHA370 Physical Chemistry II CHA670 Physical Chemistry III CHB370 Physical Chemistry III CHB371 Physical Chemistry IIIc CHB470 Physical Chemistry IV CHB471 Physical Chemistry IVC CHB570 Physical Chemistry V CHB571 Physical Chemistry VC PNB304 Physical Medicine PHB510 Physical Methods of Analysis I PHB312 Physical Properties of Materials PHD351 Physics for Nurses PHB170 Physics for Surveyors



PHB110 Physics IA PHB111 Physics IB PHB150 Physics IH PHB210 Physics IIA PHB211 Physics IIB PHB260 Physics IIG PHB250 Physics IIH PHN151 Physics of Ultrasound MNB450 Physiological & Health Psychology PHN405 Physiological Measurement PND430 Physiology PND759 Physiology PNB165 Physiology II Physiology III PNB465 Planning Prac & Law (Reg & Strateg) LPP412 LPP326 Planning Pract II (Urban) LPP336 Planning Practice & Law LPP411 Planning Practice & Law (Urban) BEA026 Plant Cell Tissue Culture MET650 Plant Engineering IA CET876 Plant Operation & Maintenance BEB321 Plant Physiology BEA021 Plant Physiology BEB621 Plant Physiology II BTB342 Plant Recognition BTB571 Plant Recognition & Requirements LPP512 Plant Recognition & Requirements BEB423 Plant Tissue Culture I BEB523 Plant Tissue Culture II BTB640 Planting Design LPP504 Planting Design BGB301 PM1 - Advanced Constn Methods BGB529 PM2 - Quantitative Techniques BGB547 PM3 - Construction Planning Techs I BGB548 PM4 - Construction Planning Techs II BGB550 PM5 - Project Cost Control BGB623 PM6 - Building Develop Techs I BGB624 PM7 - Building Develop Techs II BGB606 PM8 - Land Development Studies PND460 Podiatric Anaesthesiology PNB422 Podiatric Anaesthesiology PNB302 Podiatric Medicine I PNB421 Podiatric Medicine II PNB503 Podiatric Medicine III PNB505 Podiatric Surgery PND431 Podiatry III PND432 Podiatry IV PND731 Podiatry V PND732 Podiatry VI MNN811 Policy Analysis NSD769 Policy Making & Planning ISB216 Polit & Social Aspects of Info Tech MNB281 Political Behaviour BTB414 Population & Urban Studies LPP558 Population & Urban Studies **BEB444** Population Analysis BEB357 Population & Systems Ecology BEA405 Population Biology

BEB535 Population Genetics BEB653 Population Management ACB332 Portfolio & Security Analysis BGB526 Post Contract Services I BGB653 Post Contract Services II EEB652 Power Electronics EEB944 Power Station Engineering EEB741 Power System Analysis EEB742 Power Systems Engineering PNP123 Prac in Community Nutrition PNP132 Prac in Large Scale Feeding PNP122 Prac in Therapeutic Dietetics 1NB100 Practice I (INJ232) INB125 Practice IA (IFJ222) INB105 Practice IA (INJ232) INB130 Practice IB (IFJ222) INB110 Practice IB (INJ232) INB150 Practice II (INJ232) **INB155** Practice IIA (INJ232) INB180 Practice IIB (IFJ222) INB160 Practice IIB (INJ232) **INB200** Practice III (CSJ128) INB201 Practice III (ISJ210) INB202 Practice III (ISJ243) INB205 Practice IIIA (CSJ128) Practice IIIA (CSJ128) INB225 **INB206** Practice IIIA (ISJ210) INB207 Practice IIIA (ISJ243) INB210 Practice IIIB (CSJ128) INB211 Practice IIIB (ISJ210) INB212 Practice IIIB (ISJ243) INB250 Practice IV (CSJ128) INB251 Practice IV (ISJ210) INB252 Practice IV (ISJ243) INB255 Practice IVA (CSJ128) INB275 Practice IVA (IFJ222) **INB256** Practice IVA (ISJ210) INB257 Practice IVA (ISJ243) INB260 Practice IVB (CSJ128) INB281 Practice IVB (IFJ222) INB261 Practice IVB (ISJ210) INB262 Practice IVB (ISJ243) MNB072 Practice Management PHS021 Preparatory Physics BTN601 Prescriptive Subject for Urban Des NSN108 Primary Health Care Nursing I NSN109 Primary Health Care Nursing II NSN110 Primary Health Care Nursing III NSP171 Principles of Education ISB113 Principles of Information Mgmt ISP113 Principles of Information Mgmt PHB178 Principles of Medical Radiations NSD739 Principles of Nursing NSB201 Principles of Patient Care CEB359 Principles of Structure I CEB559 Principles of Structure III CEB659 Principles of Structure IV ARB297 Principles of Structures I



ARB298 Principles of Structures II CEB459 Principles of Structures II ARB397 Principles of Structures III ARB398 Principles of Structures IV PHB484 Principles of Treatment I PHB584 Principles of Treatment II PHN154 Principles of Ultrasound Imaging LPP405 Procedural Planning Theory LPP331 Procedural Planning Theory EEP123 Process Control & Robotics MET350 Process Engineering CHA644 Process Measurement & Monitoring I CHA744 Process Measurement & Monitoring II CEP200 Process Modelling CET777 Process Operation & Control I CET877 Process Operation & Control II MEB950 Process Plant Design PHB275 Processing Technology MET572 Production Planning & Control EEB821 Production Technology & Quality CMB622 Prof Communication Practice ARP504 Prof Prac & Mgt for Int Designers I ARP505 Prof Prac & Mgt for Int Designers II NSB130 Professional Aspects of Nursing I NSB230 Professional Aspects of Nursing II CMB104 Professional Communication LPP556 Professional Communication CMB106 Professional Communication LWB409 Professional Conduct NSN104 Professional Issues in Nursing MNB625 Professional Marketing Practice ARP653 Professional Practice SVB680 Professional Practice CEB403 Professional Practice SVB688 Professional Practice A MSN720 Professional Practice I MSN820 Professional Practice II LPP406 Professional Procedures & Ethics CMB422 Professional Speechwriting ARB495 Professional Studies I ARB595 Professional Studies II ARB695 Professional Studies III LPP361 Professnl Proceds & Ethics CSB482 Program Language & Structures MNB627 Program Evaluation ISP303 Programming CSP214 Programming Languages & Structures CSB110 Programming Principles CSB280 Programming Principles BGB663 Prog Development Process I BGB664 Prog Development Process II CHB600 Project Project IFP222 MSN900 Project MSP145 Project **OPB750** Project PND770 Project PHB616 Project

PHB672 Project PHN520 Project PHN540 Project MSP125 Project ISB305 Project BEP700 Project CHP700 Project IFB880 Project CEP999 Project Project SVB683 **EEB789** Project ESP700 Project CET797 Project I PNB610 Project & Professional Management MNN830 Project & Seminar A MNN831 Project & Seminar B SVB685 Project (Cartography) CEB491 Project (Civil) CET495 Project A MEB408 Project A (Mechanical) MEB409 Project B (Mechanical) BGB569 Project Cost Management I BGP426 Project Development BGB405 Project Equipment & Safety PNP151 Project I PNP251 Project II CET598 Project II PNP301 Project III CEB505 Project Management & Administration BGP431 Project Management I BGP432 Project Management II BGP433 Project Management Law SVT623 Project Mapping SVB203 Project Survey ESB563 Project V ESB663 Project VI CSB960 Project Work MAB960 Project Work INB300 Project Work CSP960 Project Work INB301 Project Work CSP970 Project Work A INB310 Project Work I INB320 Project Work II BEB560 Projects I BEB660 Projects II MNP506 Promot Policies & Meths MNB624 Promotional Strategy BGP412 Property Maintenance BGB561 Property Maintenance I BGB562 Property Maintenance II BGP439 Property Management BGB665 Property Management I BGB666 Property Management II BGB362 Property Marketing MND129 Psych for Health Professionals A NSN113 Psychiatric/Mental Health Nurs III NSN111 Psychiatric/Mental Health Nursing I

NSN112 Psychiatric/Mental Health Nursing II MND501 Psychology MND415 Psychology MNB267 Psychology MNB067 Psychology MNB154 Psychology MNB002 Psychology for Engineers MND011 Psychology I MND033 Psychology II MND055 Psychology III MND066 Psychology IV NSB250 Psychosocial Adaptation ACB381 Public Administrative Law CMB671 Public Affairs Reporting MNB485 Public Enterprise CEB470 Public Health Engineer II CET775 Public Health Engineering CEB370 Public Health Engineering I CEB570 Public Health Engineering III CEP174 Public Health Engineering Practice LWB406 Public International Law MNB484 Public Personnel Management MNB509 Public Policy & Business MNB588 Public Policy Process I MNB687 Public Policy Process II BTB648 Public Services CMB553 Publicity & Promotion - Electronic CMB552 Publicity & Promotion - Print ACN110 PY Module - Accounts ACN120 PY Module - Audit & EDP ACN170 PY Module - Taxation

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CHA219 Oualitative Analysis PHB574 Quality Assurance in Medical Imaging ACP213 Quality Cost Analysis **Ouality Information Systems** ISP380 MEP273 Quality Measurement & Testing MEP173 Quality Planning MAP221 Quality Problem Solving Techniques MNP112 Ouality System Management MEP473 Quality Systems & Assessment MAB173 Quantitative Methods MAB195 Quantitative Methods I MAB172 Quantitative Methods IB MAB196 Quantitative Methods II MAB150 Quantitative Techniques MAB151 Ouantitative Techniques BTB442 Quantities & Costs LPP509 Quantities & Costs

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PHB671Radiation BiologyPHB272Radiation Physics IPHN103Radiation Physics IPHB471Radiation Physics IIPHN104Radiation Physics II

CMB571 Radio/Television Journalism I CMB672 Radio/Television Journalism II PHD471 Radiobiology & Protection PHB374 Radiographic Equipment I PHB474 Radiographic Equipment II PHD574 Radiographic Equipment III PHB313 Radiographic Image Interpretation PHD573 Radiographic Technique III PHN402 Radiotherapy PHB382 Radiotherapy Physics I PHB482 Radiotherapy Physics II PHD586 Radiotherapy Practice V PHB287 Radiotherapy Technique I MSP123 Readings in Biotechnology I MSP124 Readings in Biotechnology II BGB367 Real Estate - Accounting I BGB368 Real Estate - Accounting II BGP438 Real Estate Investment & Economics BGB567 Real Estate Practice I BGB568 Real Estate Practice II EEP104 Realtime Operating Systems MNB362 Recruitment & Selection MET352 Refrigeration & Air Conditioning PND755 Regional & Surgical Anatomy PNB325 Regional & Sectional Anatomy PHB402 Relativity & Radiation Physics MEP371 Reliability & Maintainability SVB645 Remote Sensing SVT945 Remote Sensing BTB562 Report Preparation LPP518 Report Preparation CMB360 Reporting Principles Representation of Information ISB102 ISB182 Representation of Information ISB107 Representation of Information SVT813 Reprographic Processing A LWB412 Research & Writing Project MNN807 Research Design & Data Analysis BGP440 Research Methodology INN200 Research Methodology LPP339 Research Methods & Individ Project LPP415 Research Methods & Individ Project NSN103 Research Methods in Nursing EEP300 Research Project MSP121 Research Strategies I MSP122 Research Strategies II LPP202 Residential Landscape Design LPP414 Resource Management LPP343 Resource Management LWN014 Resources Development Law PNA650 Respiratory Physiol & Anatomy CMB441 Retail Advertising MNB491 Retailing Management I MNB524 Retailing Management II CEP127 Road & Traffic Engineering CET565 Road & Drainage Engineering CET815 Road Location & Design EEB601 Realtime Operating Systems

LPP401	Rural Land Use & Planning
LPP333	Rural Land Use & Planning

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CET709 Safety & Industrial Relations MEP201 Safety Technology & Practice I MEP301 Safety Technology & Practice II MNB426 Sales Management MAP211 Sampling Procedures CSP213 Scientific Applications CSB213 Scientific Applications CSB283 Scientific Applications ESB593 Sedimentary Petrology ESB497 Sedimentology BEB500 Selected Topics I BEB600 Selected Topics II MEB401 Seminar SVT626 Seminar SVB282 Seminar I SVB682 Seminar II CMN830 Seminar in Communication CMN723 Seminar in Communication Research CHB440 Separation Methods EEB372 Sequential Logic MNB492 Services Marketing EEB602 Signal Processing EEB361 Signals & Systems BTB340 Site Measurement LPP507 Site Planning LPP553 Site Planning Data & Techniques LPP554 Site Planning Practice BTB441 Site Planning Techniques LPP502 Site Planning Techniques **BTB341** Site Planning Theory CMD114 Soc & Cultural Anthropology LPP408 Social & Political Structures LPP318 Social & Political Structures LPP402 Social Planning LPP344 Social Planning MNB323 Social Psychology CMD100 Sociology CMB111 Sociology CMD411 Sociology CMB300 Sociology for Health Professionals CMB119 Sociology for Professionals CMB400 Sociology of Health & Illness CMD200 Sociology of Health & Illness CSB490 Software Engineering CSB302 Software Engineering CSP112 Software Principles CEB240 Soil Mechanics I CET645 Soil Mechanics I CEB241 Soil Mechanics II LWB405 Solicitors' Trust Accounts PHB601 Solid State Physics CHB671 Solids & Surfaces CMB999 Spec Topic - Communication PHB476 Special Procedures

PND461 Special Procedures Clinic CSB320 Special Studies CMN899 Special Topic CSN370 Special Topic ISB998 Special Topic - Bus Computing ISB999 Special Topic - Bus Computing ACN997 Special Topic - Commercial Law ACN998 Special Topic - Mngl Acctg & Finance ACN999 Special Topic - Public Accounting ACB999 Special Topic Accountancy MNP999 Special Topic Bus Admin ACA999 Special Topic Business Special Topic Commercial Computing-ISP998 MNB997 Special Topic Health Admin MEB500 Special Topic I MEB601 Special Topic II MEB701 Special Topic III Special Topic in Commercial Comput **ISP999** MNB517 Special Topic in Ind Relations MNB611 Special Topic in Tourism MEB800 Special Topic IV MNB999 Special Topic Management MNN899 Special Topic or Elective MNB998 Special Topic Public Admin 1SP417 Special Topic/Gen Elect Special Topic/Information Mgmt ISB317 1SP427 Special Topic/Library Science PHB687 Specialised Radiotherapy Technique BGB520 Specifications CET708 Specifications & Estimates CHB340 Spectroscopy CMB220 Speech & Drama CMB012 Speech Communication PND761 Sports Medicine PNB602 Sports Medicine EEB600 Starting a Tech Based Business MNB282 State Government CEB282 Statics EEB761 Statistical Communications MAB929 Statistical Forecasting MNN307 Statistical Methods MAP111 Statistical Methods in Quality MAP121 Statistical Process Control MAB252 Statistics MAP256 Statistics MAN255 Statistics MAB156 Statistics MAB227 Statistics **BGP441** Statistics MAA251 Statistics & Data Processing CEB201 Steel Structures ISB318 Strategic Information Management MNB691 Strategic Marketing NSN401 Strategies for Nursing Research ESB597 Stratigraphy CEB281 Strength of Materials MEB511 Stress Analysis

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CEB406 Structural Applications

CET888 Structural Drawing & Design CET787 Structural Engineering Drawing CEB253 Structural Engineering I CEB354 Structural Engineering II CEB355 Structural Engineering III ESB357 Structural Geology ESB647 Structural Geology & Geotechtonics ESB643 Structural Geology VI CET255 Structural Mechanics BGB143 Structures I BGB144 Structures II BGB257 Structures III BGB258 Structures IV PND760 Studies in Applied Physiology ASP703 Studies in Global Systems A ASB101 Study Support Skills CMB371 Sub-Editing & Layout EET840 Substations & Protection Systems LWB309 Succession MET901 Sugar Mill Technology I MET902 Sugar Mill Technology II PND471 Surgery SVT222 Survey Drafting MAB199 Survey Mathematics I MAB795 Survey Mathematics III SVT225 Surveying SVB001 Surveying & Mapping SVB101 Surveying & Measuring SVB306 Surveying I MAB495 Surveying Mathematics II Surveying Practice SVP101 PNB220 Systematic Anatomy MSB320 Systematic Pathology Systems Analysis & Design ISP200 CSB211 Systems Arch & Op Systems CSP211 Systems Architecture & Op Systems CSB326 Systems Programming EEB591 Systems Programming Languages

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ACB344 Taxation & Professional Practice ACN178 Taxation & Professional Practice ACB441 Taxation Honours LWB403 Taxation Law ACB340 Taxation Law & Practice ACB343 Taxation of Business Entities ACN177 Taxation Policy Honours BEA004 Taxonomy NSD735 Teaching Practice I NSD736 Teaching Practice II CMB136 Technical Writing MNP309 Technological Innovation ARB195 Technology I ARB196 Technology II EET460 Telecommunications EET753 Testing & Commissioning Techniques The Computer System ISP100 LWN015 The Criminal Justice System

BTB101 The Human Environment I ARB191 The Human Environment I BTB201 The Human Environment II ARB192 The Human Environment II BTB301 The Human Environment III ARB291 The Human Environment III BTB401 The Human Environment IV ARB292 The Human Environment IV ISB214 The Information Resource MNB503 The Tourism Industry in Aust BTN202 The Urban Environment & Behaviour I BTN203 The Urban Environment & Behaviour II BTN302 The Urban Landscape NSB210 Theories of Nursing I NSB211 Theories of Nursing II NSD762 Theory & Practice of Nursing CSN100 Theory of Computing I CSN300 Theory of Computing II MEB411 Theory of Machines LPP501 Theory of Site Planning LPP555 Theory of Site Planning PNP120 Therapeutic Dietetics PND452 Therapeutics II PHB401 Thermal & Vacuum Physics MET250 Thermodynamics MEB250 Thermodynamics I MEB251 Thermodynamics II MEB650 Thermodynamics III MET560 Thermofluids LWN100 Thesis CMN950 Thesis/Project BGB565 Time Management BGP434 Time Management I BGP414 Time Management II MAB906 Topics in Analysis MSP127 Topics in Biotechnology I MSP128 Topics in Biotechnology II SVB634 Topics in Engineering Surveying PHB620 Topics in Physics LWB103 Torts BTN305 Tourism & Recreation in Urban Design LWN005 Trade Practices & Consumer Protection LWB410 Trade Practices Law MET171 Trade Training IA MET271 Trade Training IIA CHA844 Trade Waste Control CEB313 Traffic Engineering MSA436 Transfusion Techniques IV EEB562 Transmission & Propagation EET737 Transmission & Propagation MNB612 Transnational Management BTN303 Transport & Movement Syst in Ur Des MNB527 Transport Economics CEB512 Transport Engineering I CEB511 Transport Engineering II BTB563 Transport Planning LPP557 Transport Planning CEP218 Transportation Engineering



PHB286Treatment Planning IPHB386Treatment Planning IIMEB463TribologyLWN016Tribunals & Enquiries

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PHN155 U/Sonic Exam in Obstetrics/Gynaecol PHN352 U/Sonic Exam in Cardiology PHN354 Ultrasonic Examination of Head, Neck & Peripheral Organs PHN353 U/Sound in Medical Diagnosis PHN156 Ultrasonic Exam of The Abdomen PHN153 Ultrasound Equipment I PHN351 Ultrasound Equipment II NSD768 Unit Management EEP102 Unix & C for Engineering **BTN404** Urb Des Feasibilities & Management BTN403 Urb Des Guidelines & Develop Control BTN501 Urb Des Research Dissertation Elect **BTB654** Urban & Regional Planning Electives BTN304 Urban Climate & Services LPP325 Urban Design BTN101 Urban Design Analysis Studio **BTN401** Urban Design Computer Applications BTN103 Urban Design Conjecture Studio BTN102 Urban Design Context Studio BTN105 Urban Design Field Studies Studio BTN104 Urban Design Guidelines Studio BTN201 Urban Design History of Urb Systems BTN701 Urban Design Research Electives 1 BTN702 Urban Design Research Electives 2 BTN204 Urban Design Theory & Criticism BGB166 Urban Economics LPP341 Urban Governance LPP323 Urban Land Development LPP565 Urban Land Development LPP203 Urban Landscape Design BTB663 Urban Planning I LPB441 Urban Planning II Urban Planning III LPB444 LPP416 Urban Policy Implementation Urban Policy Processes LPP407 LPP322 Urban Structure CEP310 Urban Transport Planning

- PNA850 Urological Physiology & Anatomy
- LPP506 User & Character Design Studies

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CEB192	Vacation Practice I
EEB206	Vacation Practice I
MEB200	Vacation Practice I
EEB901	Vacation Practice I
CEB292	Vacation Practice II
EEB406	Vacation Practice II
MEB300	Vacation Practice II
EEB902	Vacation Practice II
CEB392	Vacation Practice III

EEB606	Vacation Practice III
MEB402	Vacation Practice III
EEB903	Vacation Practice III
BGB442	Valuations & Dilapidations
BGB563	Valuations - Advanced I
BGB564	Valuations - Advanced II
BGB263	Valuations I
BGB268	Valuations II
BGB363	Valuations III
BGB364	Valuations IV
BGB464	Valuations V - Rural
BEB429	Vegetation Studies
MNP310	Venture Management & Development
CMB464	Video Production Techniques
MSB408	Virology IV
MSB512	Virology V
LPP516	Visual Communication - Graphics
BTB306	Visual Communication I
BTB406	Visual Communication II
BTB506	Visual Communication III
BTB653	Visual Communication IV
OPB312	Visual Science III

OPB412 Visual Science IV

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- CEP277 Waste Management
- CEP274 Water & Wastewater Treatment II
- CEP172 Water Quality Engineering
- PHB310 Wave Theory & AC Circuits
- ARP503 Workplace Design
- MET475 Workshop (Mech) IIIA
- MET175 Workshop Training Mech IA
- CMB014 Writing & Communication Theory
- CMB116 Writing for Designers I
- ARB189 Writing for Designers I
- CMB117 Writing for Designers II
- ARB190 Writing for Designers II

