

*Refugee Services
Manager*



Queensland University of Technology

1 9 9 1 HANDBOOK

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PREFACE

History

The Queensland University of Technology was created in January 1989 by redesignation of the Queensland Institute of Technology. QIT had its origins in the Central Technical College, established in 1914 on what is now the University's Gardens Point campus. On its formation in 1965, QIT absorbed the professional courses offered by the Central Technical College and in its first year enrolled some 2000 part-time students.

In May 1990, QUT amalgamated with the Brisbane College of Advanced Education, a large multi-campus institution specialising in the arts, business, education and the social sciences. BCAE was formed by an amalgamation that took place in January 1982, its precursors being the Kelvin Grove, Mount Gravatt and North Brisbane Colleges of Advanced Education and the Brisbane Kindergarten Teachers' College. These institutions were established, under other designations, in 1914, 1969, 1961 and 1907 respectively. The Mount Gravatt campus of BCAE was transferred to Griffith University in January 1990 prior to BCAE commencing amalgamation negotiations with QUT.

The institution resulting from the amalgamation of BCAE with QUT has retained the title Queensland University of Technology. It is a major university in the Australian context with a broad academic profile and an increasing involvement in research and postgraduate education. The fields of study in which the University is active include architecture and the built environment, the arts, business, education, engineering, health sciences, information technology, law, mathematics, science, the social sciences and surveying. QUT has an enrolment exceeding 20,000 students and expectations of sustained growth. It has campuses at Carseldine, Kedron Park, Kelvin Grove and Gardens Point, all in metropolitan Brisbane, and is in the process of developing a new campus on the Sunshine Coast, north of Brisbane.

In the final months of 1990 the University was involved in a process of introspection and review as it completed the reorganisation and regrouping made necessary by the amalgamation. From the beginning of 1991, new academic and administrative structures will be operative and the University will be well prepared organisationally to proceed with the rapid development expected to characterise its immediate future.

Council

The Council is the University's governing body, with responsibility for advertising the University in accordance with the Queensland University of Technology Act, 1988-1990. The Council consists of twenty-two members, of whom eight are nominees of the Minister for Education, one is a nominee of the Director-General of Education, two are nominees of the Council, two are elected non-academic staff members, three are elected academic staff members, two are elected student members and three are elected Convocation members. The Chancellor and Vice-Chancellor are members ex-officio. The Chancellor is Chairperson of the Council and the University Registrar is Secretary.

Convocation

Convocation represents the interests of QUT graduates through its representation on Council and its influence on University decision making, particularly in regard to teaching and applied research.

Convocation is chaired by a Warden and is served by a Standing Committee. The full Convocation meets annually and its functions are performed through the year by the Standing Committee.

Mission

Within its written statement QUT has identified three main goals:

- **Teaching** – to ensure that its graduates acquire knowledge, professional competence, a sense of community responsibility, and a capacity to continue their professional and personal development throughout their lives.
- **Research** – to advance and apply knowledge germane to the professions and to the communities with which it interacts, and relevant to the enhancement of economic, cultural and social conditions.
- **Service** – to contribute to the development of Australia's international responsibility and competitiveness; to enhance QUT's relationship with the professions; and to increase community awareness of issues through professional service and social convention.

Information

In addition to the Handbook, the University produces a range of publications to which the public has access. These include the Research and Consultancy Report, the Annual Report and the Admission Procedures booklet. These publications and other publications or information about the University may be obtained on request from the University Registrar. All correspondence should be addressed to:

The University Registrar
Queensland University of Technology
GPO Box 2434
Brisbane Qld 4001
Australia

PRINCIPAL DATES

The schedule of dates which appears below is the University's official calendar. Not all courses comply with the official calendar in every respect. Detailed information on individual course calendars is available from faculty offices and Student Administration.

First Semester

11 – 15 February	■ Orientation
18 – 22 February	■ Week 1
25 February – 1 March	■ Week 2
4 – 8 March	■ Week 3
11 – 15 March	■ Week 4
18 – 22 March	■ Week 5
25 – 29 March	■ Week 6
1 – 5 April	■ Vacation
8 – 12 April	■ Week 7
15 – 19 April	■ Week 8
22 – 26 April	■ Week 9
29 April – 3 May	■ Week 10
6 – 10 May	■ Week 11
13 – 17 May	■ Week 12
20 – 24 May	■ Week 13
27 – 31 May	■ Week 14
3 June – 19 July	■ Exam preparation, exams, assessment, fieldwork, vacation

Second Semester

22 – 26 July	■ Week 1
29 July – 2 August	■ Week 2
5 – 9 August	■ Week 3
12 – 16 August	■ Week 4
19 – 23 August	■ Week 5
26 – 30 August	■ Week 6
2 – 6 September	■ Week 7
9 – 13 September	■ Week 8
16 – 20 September	■ Vacation
23 – 27 September	■ Week 9
30 September – 4 October	■ Week 10
7 – 11 October	■ Week 11
14 – 18 October	■ Week 12
21 – 25 October	■ Week 13
28 October – 1 November	■ Week 14
4 November – 20 December	■ Exam preparation, exams, assessment, fieldwork, vacation

COUNCIL

Chancellor (Chairperson)

V.B. Pullar, BEng(Hons) *Qld*, FIEAust

Vice-Chancellor

Prof R.D. Gibson, BSc *Hull*, PhD DSc *N'cle (UK)*, FAIM

Nominees of the Minister for Education

P.D. Beattie, BA LLB *Qld*

K.N. Dredge, BEng *Syd.*, BEcon *Qld*

E.F. Finger, BEng *Qld*, MEngSc *NSW*

M.M.L. Forde, LLB *Qld*, DipMedTech *Ottawa*

K.A. Hart, BEdSt *Qld*, DipTeach *Kelvin Grove LSDA Trin*

L.N. Ledlie, BEcon *Qld*

Dr C. Hirst, MBBS BEdSt *Qld*

J.J.W. Siganto, BEng *Qld*, FIEAust

Nominee of the Director-General of Education

L.J. Dwyer, BA BEd MEdSt *Qld*, MA *Lond.*, FACE

Nominees of Council

Vacant (Council has power to appoint two additional members)

Elected non-academic staff members

M. McPherson, BA *ANU*, DipLib *NSW*

L.A. Heron, BA *Qld*, GradDipLibSc *QIT*

Elected academic staff members

Dr D. Blackmur, BEcon(Hons) MLitStud PhD *Qld*, MACE

T.G. Lewis, BSc BEd *Qld*, MSc *Aston*, MSc *Griff.*

Dr S.V. McLean, DipTeach *BKTC*, BEdSt *Qld*, MEd PhD *Arizona*

Elected student members

L.A. Chesser

R.H. Doo, DipTeach *Bris.*

Elected Convocation members

M.A. Muldoon, GradDipEdAdmin *Mt Gravatt*

J.P. Dunleavy, BBus (PubAdmin) MBus *QUT*

Secretary

B.S. Waters, BCom *Qld*, AAUQ (Prov)

Deputy Vice-Chancellor (attends by invitation)

Prof T.C. Dixon, BEd (Hons) MA *Qld*, MLitt *NE*, PhD *Rensselaer*, FAIM

PRIZES AND AWARDS

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING Built Environment

Australian Design Council Student Award

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

Australian Federation of Construction Contractors

Awarded to a student from one of the courses Bachelor of Engineering (Electrical), Bachelor of Engineering (Mechanical), Bachelor of Applied Science – Construction Management or 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.

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 – Quantity Surveying course who submits the best Research Project.

Board of Architects of Queensland 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 Design Award

Awarded to the student in the third, fourth or fifth year of the Architecture courses whose nominated design project shows the most imaginative use of building materials to enhance the design.

James Hardie Prize for Building

Awarded to the student in the third year of the degree course in Construction Management with the best results over five semesters in the subject 'Construction'.

Karl Langer Award

Awarded by the Australian Institute of Landscape Architects to a student in the Graduate Diploma in Landscape Architecture course who, in the opinion of the adjudicators, shows 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 major) 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.

Queensland Cement

Awarded to the fourth year student in the Bachelor of Applied Science – Construction Management with the best academic performance in building technology subjects over the four years.

Royal Australian Institute of Architects – QIA Medallion

Awarded to the most outstanding student of the sixth year of the degree course in Architecture. The student must have shown consistent progress throughout the course.

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.

Engineering

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 in most instances students do not apply for the awards. However, a few prizes do require students to apply to be considered and these are indicated by an asterisk.

*** AFCC Civil Engineering Award**

Donated by the Australian Federation of Construction Contractors and awarded to a final year 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 final year 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.

Applied Micro Systems Prize for Engineering and Detail Surveying

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

Association of Public Authority Surveyors Prize

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

The Australian Asphalt Pavement Association (Queensland) Prizes

Awarded:

- ☐ to the student in the Bachelor of Engineering (Civil) course who shows the most promise in the subject 'Highway Engineering'; and
- ☐ to the student in the Bachelor of Engineering (Civil) course who shows the most promise in the subject 'Transport Engineering I'.

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.

Australian Institute of Engineering Associates (Brisbane Branch) Award

Awarded to the outstanding graduate of an Associate Diploma in Engineering.

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 Road Federation Road Study Award

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

Australian Surveying and Land Information Group Prize for Surveys for Government

Awarded to the graduate of the Graduate Diploma in Surveying Practice course 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 per cent based on Grade Point Average and 40 per cent 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) course who obtains the best result in the subject 'Photogrammetry II'.

Course Administrator's Prize for Leadership

Donated by the Staff of the Department of Surveying and awarded to the graduate of the Graduate Diploma in Surveying Practice course 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 course who has achieved a high level of proficiency and demonstrated significant potential in practice law.

Dean's Award for Excellence

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

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; and
- ☐ the graduate of the Associate Diploma in Engineering course with the best performance in designated subjects relevant to electric energy.

Energy Control International Microelectronics Design Prize

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

Engineering & Surveying Alumni Award

An award will be made to a final year degree student from each school for excellence in the presentation of a seminar. The seminar may be based on final year project work or on an industry related project approved by the school. Award winners will be selected at school level to represent their respective disciplines. A judging panel will select an overall winner at an evening presentation of the seminars which will be attended by members of industry, the public, staff and students from the faculty.

*** Golder Associates Geotechnical Engineering Studies Award**

Donated by Golder Associates and awarded to a student of the Bachelor of Engineering (Civil) course. The award is made to a student who has obtained one of the seven highest aggregate marks for the subjects 'Geology for Engineers', 'Soil Mechanics I' and 'Soil Mechanics II' and in addition, is interested in working in geotechnical engineering and is seen to have personal skills and attributes required for advancement within that field.

John Grayson Pike Memorial Prize for Cadastral Surveying

Donated by the Association of Consulting Surveyors (Queensland) and Pike Mirls McKnoulty Pty Ltd and awarded to the graduate of the Graduate Diploma in Surveying Practice course 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 Prize

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

Heilbronn and Partners Pty Ltd Prize for Survey Project Management

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

Honeywell Limited 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 course 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 for Drafting and Design 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 subjects relating to electronics and communications in the final year of the Bachelor of Engineering (Electrical and Computer Engineering) course; and
- ☐ to the student who performs best in subjects relating to electronics and communications 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 a 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) Prize for Professional Practice

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

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 Year 1, Semesters 1 and 2 and enrolls in all subjects for Year 2, Semester 1.

Keilar Fox & McGhie Pty Ltd Prize for Mapping

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

*** John Kindler Memorial Prize**

Awarded in memory of 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 Quality Engineering', 'Public Health Engineering Practice' and 'Advanced Treatment Processes' in the Graduate Diploma in Municipal Engineering course, or Master of Engineering Science (Civil) course.

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 Planning and Economics', and, where appropriate, Design Project and/or electives.

Louvre Windows Australia Pty Ltd 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.

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 a student in the final year of the Bachelor of Engineering course who undertakes a project of mutual benefit to the University and MIM Holdings Limited and which is of a high academic standard.

MTIA- F.L. Hudson Memorial Foundation Achievement Award

Awarded to the part-time student in the Associate Diploma in Mechanical Engineering course who successfully completes all subjects in Year 3, Semesters 1 and 2 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 course 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'.

QEC Awards for Instrumentation and Control

Awarded:

- ☐ to an Associate Diploma in Electrical Engineering student for high academic performance in the fields of instrumentation and automatic control; and
- ☐ to a student from the Bachelor of Engineering (Electrical and Computer Engineering) or Bachelor of Engineering/Bachelor of Applied Science (Electronics and Computing) course for high academic performance in the fields of instrumentation and control.

Quasco Pty Ltd Prize for Office Operations

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

Queensland Department of Transport Prizes

These prizes are awarded to officers of the Queensland Department of Transport 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 draftsman, Associate Diploma in Engineering – cadet construction or investigation technician, and Bachelor of Engineering – full-time Queensland Department of Transport scholarship holder.

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 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 course who has demonstrated a capacity to look to the future and who has the potential to provide leadership in innovative technology.

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 course.

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'.

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'; and
- ☐ 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 course who obtains the best result in the subjects: 'Photogrammetry I', 'Photogrammetry II' and 'Photogrammetry III.'

FACULTY OF BUSINESS Gardens Point campus

Advertising Institute of Australia Prize

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

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 major of the Bachelor of Business – Accountancy who, in the opinion of QUT, has displayed the highest level of academic excellence for the year.

Arthur Andersen & Co 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 & Co Prize

Awarded to the student who gains the highest aggregate marks over a calendar year in the subjects 'Auditing' and 'Auditing and Professional Practice I', 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.

Australian Association of National Advertisers Prize

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

Australian Institute of Bankers Prize

Awarded to the student who, taking the subject 'Financial Institutions – Lending' for the first time, obtains the highest result in that subject.

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.

Australian 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'.

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 major 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.

Brisbane Business and Professional Women's Club

Margaret Cameron Memorial Prize – donated by 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 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 major 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 presentation in the subject 'Community Relations'.

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.

College Credit Union Postgraduate Scholarship

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

Colorama Photographers Prize

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

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 subject.

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.

Duesburys Chartered Accountants Prizes

Awarded:

- ☐ to the Bachelor of Business – Accounting student enrolled in the Accounting major, who takes the subject 'Law of Business Associations' for the first time and gains the highest result at the semester examinations; and
- ☐ to the Bachelor of Business – Accountancy student, enrolled in the Accounting major, who takes the subject 'Company Law and Practice' for the first time and gains the highest result in that subject.

EDP Auditors Association Prize

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

Golden Casket Prize for Strategic Management

Awarded annually to the third year Bachelor of Business – Management student who gains the highest grade in the subject 'Strategic Management'.

Douglas Heck Award

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

Merv Hoskins Memorial Prize

Awarded to the student who obtains the highest marks at the first attempt in the subjects 'Accounting I' and 'Accounting II'. The subjects are to be completed in one calendar year.

Karen Howitt Memorial Prize

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

Human Resource Management Group Prize

Awarded to the student enrolled in the subject '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 'Accounting Theory and Practice', 'Auditing' and 'Taxation Law and Practice' for the first time and obtains the highest aggregate pass in all three subjects.

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.

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'.

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.

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.

Peat Marwick KPMG Prizes

Awarded:

- to the student enrolled in the Bachelor of Business – Accountancy course, who takes the final year subjects ‘Taxation of Business Entities’ and ‘Auditing and Professional Practice’, and obtains the highest marks in those subjects at the first attempt; and
- to the student in the Bachelor of Business – Accountancy course with the highest aggregate marks at the first attempt for the subject ‘Accounting II’.

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 epitomises the highest professional characteristics represented by membership of the public relations profession.

Queensland Newspapers Prize for Journalism

Awarded to the student enrolled in the Bachelor of Business – Communication course, who takes the Journalism major, 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.

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’.

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 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’.

J.F. Storr Prize

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' and 'Taxation of Business Entities' for the first time, in the one calendar year, and obtains the highest pass in those subjects.

Triple M – FM104 Scholarship

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

Turnbull Fox Phillips 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'.

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.

Kedron Park campus

GRADUATE DIPLOMA OF BUSINESS – INDUSTRIAL RELATIONS

UTAH-BHP and Queensland Electricity Prize

Awarded to the most outstanding graduate.

BACHELOR OF BUSINESS – ACCOUNTING

Australian Institute of Taxation and Management Accountants Limited Prizes

Managerial: awarded to the student with the best results in AC3017 and AC3025.

Taxation: awarded to the student with the best results in LW3015.

Australian Society of Accountants Prize

Graduate: awarded to the graduate with the best performance in AC3013, AC3014, AC3015, AC3017, AC3023 and AC3025.

First Year: awarded to the student with the best performances in AC3013 and AC3017.

Second Year: awarded to the student with the best performances in AC3013, AC3014, AC3015 and AC3017.

Coopers & Lybrand Prize

Awarded to the student with the best results in AC3018.

Hewlett Packard Prizes

Awarded to the outstanding Bachelor of Business – Computing graduate.

Awarded to the outstanding Bachelor of Business – Marketing graduate.

Awarded to the top student in 'Business Quantitative Methods I'.

Institute of Chartered Accountants in Australia Prize

Awarded to the graduate with the best aggregate results in subjects AC3015, AC3018, AC3023 and LW3015.

The Taxation Institute of Australia Prize

Awarded to the student with the best performance in LW3015.

BACHELOR OF BUSINESS – ADMINISTRATION AND MANAGEMENT**Australian Institute of Management Bursary**

Awarded to the student with the best performance in subjects AD3048 and AD3052.

Australian Institute of Management Prize

Awarded to the student (both full and part-time) with the best performance in AD3048 and AD3052 (2 prizes).

ASSOCIATE DIPLOMA OF BUSINESS – INDUSTRIAL RELATIONS**UTAH-BHP and Queensland Prize**

Awarded to the most outstanding graduate.

FACULTY OF HEALTH**Allergan Optical Prize**

Awarded to the third year student who gains the highest aggregate mark in the subjects 'Optometry V' and 'Optometry VI'.

Allergan Hydron Prize

Awarded to the third year student who gains the highest mark in the subject 'Contact Lens Studies 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 Environmental Health Prize

Awarded to the student who obtains with distinction, the highest weighted Grade Point Average in the Bachelor of Applied Science – Environmental Health.

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.

Paddy Behan Memorial Prize

Donated by the Local Government Association of Queensland and awarded to the Environmental Health student who gains the highest marks in the subject 'PNB622 Project'.

Centaur Memorial Fund for Nurses 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.

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 Planning'.

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.

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 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.

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.

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.

D.W. Johnson Prize

Donated by the Queensland Division of the Australian Institute of Environmental Health, and awarded to the graduating student who obtains, with distinction, the highest aggregate of marks in the subjects 'Environmental Health Management I and II'.

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.

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.

Florence Nightingale Committee, Australia – Queensland Branch Prizes

Awarded:

- ☐ to the graduating student who obtains the highest aggregate marks over all subjects of the Diploma of Applied Science – Clinical Nursing Studies; and
- ☐ to the graduating student who obtains the highest aggregate marks over all subjects in the Bachelor of Applied Science – Nursing (Research major).

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.

Royal Australian College of Medical Administrators Prize

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

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'.

FACULTY OF INFORMATION TECHNOLOGY

Gardens Point campus

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.

Australian Library and Information Association, 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.

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 subject 'Information Sources and Services' for the first time, and achieves the highest marks.

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 student enrolled in the Bachelor of Business – Computing demonstrating the greatest proficiency in the subject Project Work (INB300).

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 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 'Online Information Service' subject within the Graduate Diploma in Library Science.

Kedron Park campus

ASSOCIATE DIPLOMA OF BUSINESS – COMPUTING

Scitec Corporation Prize

Awarded to the outstanding graduate of the course.

FACULTY OF LAW

Gardens Point campus

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 'Civil Procedure' 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 \$750 awarded to the graduating Bachelor of Laws student with the highest aggregate mark in the subjects 'Commercial Law', 'Drafting and Legal Transactions', '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 produces the best 'answer' to a civil procedure problem which involves some pleadings.

CLOSED PRIZES

Australian Law Librarians Group (Queensland Division) Prize

A prize of \$300 awarded each year to the best student in 'Legal Research and Writing II'.

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

Drafting and Legal Transactions and Land Contracts: A bursary of \$250 awarded each year to the student (who is not a full-time student and who is articulated to a solicitor in the Gold Coast area) with the highest marks in 'Drafting and Legal Transactions' and 'Land Contracts'.

Civil Procedure: A bursary of \$250 awarded each year to the student (who is not a full-time student and who is articulated to a solicitor in the Gold Coast area) with the highest mark in 'Civil Procedure'.

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 articulated 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'.

Equity: A prize of book vouchers to the value of \$100 awarded each year to the best student in 'Equity'.

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'.

Cannan and Peterson Prize

Torts: A prize of \$1,000 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 \$1,000 awarded each year to the best student in 'Taxation Law'.

Clewett Corser & Drummond Prize

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

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

Drafting and Legal Transactions: A prize of \$500 awarded each year to the best student in 'Drafting and Legal Transactions'.

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

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 'Civil Procedure'.

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

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'.

Kedron Park campus

ASSOCIATE DIPLOMA OF BUSINESS – COURT AND PARLIAMENTARY REPORTING

Australian Shorthand Reporters Association (Queensland)

Awarded to the graduate with the best performance in RP1024.

FACULTY OF SCIENCE

Advanced Technology Laboratories/A.I.R. Prize

The Advanced Technology Laboratories Prize, presented in association with the Australian Institute of Radiography and awarded to the student who achieves the highest mark in Clinical Practice subjects in the first year of the Master of Applied Science – Medical Ultrasound Major.

AGFA-Gevaert/AIR Prize

The AGFA-Gevaert Prize, presented in association with the Australian Institute of Radiography and awarded to the student obtaining the highest marks in the first year subject 'Processing Technology' of the Bachelor of Applied Science – Medical Imaging Technology.

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 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 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.

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.

Australian Organisation for Quality Award

Awarded annually to the most outstanding graduating student, based on the highest Grade Point Average over the duration of the course.

David Barry Memorial Prize

Awarded to the graduate with the best overall academic performance in the biology major 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

Three scholarships are 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 scholarships take the form of a stipend and a book allowance, together with periods of vacation employment. Further details of the scholarships can be obtained from the Department of Chemistry. Applications must be submitted on or before 31 August 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

Awarded 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.

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.

Dupont/AIR Award

The Dupont Prize, presented in association with the Australian Institute of Radiography and awarded 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 Royal Australasian College of Radiologists, Queensland Branch, and awarded to students in the third year of the Bachelor of Applied Science – Medical Imaging Technology and the Bachelor of Applied Science – Radiotherapy Technology 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, 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.

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.

Haines Medical/AIR Award

The Haines Medical Prize, presented in association with the Australian Institute of Radiography and awarded to the student achieving the best academic record in the first year of the Bachelor of Applied Science – Radiotherapy Technology course.

Hanimex/AIR Prize

The Hanimex Prize, presented in association with the Australian Institute of Radiography and awarded to the student achieving the best academic record in the third year of the Bachelor of Applied Science – Medical Imaging Technology 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 Science course with major studies in Chemistry who, in the opinion of the Head of Department, shows at first attempt the greatest overall proficiency in Year 3, Semesters 1 and 2 (or the part-time equivalent) of the above courses. If no student is considered suitable in a given year, no prize will be awarded.

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.

Kodak Prize

Awarded to the student in the Bachelor of Applied Science – Medical Imaging Technology course, who obtains the best academic record (as determined from awarded grades) for the course completed in that year.

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.

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 subject 'Microbiology VI'.

Mallinckrodt/AIR Award

The Mallinckrodt Prize, presented in association with the Australian Institute of Radiography and awarded to the student achieving the best academic record in the second year of the Bachelor of Applied Science – Radiotherapy Technology course.

Medical Applications/AIR Prize

The Medical Applications Prize, presented in association with the Australian Institute of Radiography and awarded to the student achieving the best academic record in the third year of the Bachelor of Applied Science – Radiotherapy Technology 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.

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.

Royal College of Pathologists of Australia (Queensland Committee) Prize

Awarded to the student who obtains the highest pass in the subjects '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.

Schering/AIR Award

The Schering prize, presented in association with the Australian Institute of Radiography and awarded to the student achieving the best academic record in the second year 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 course 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.

Charles O. Schloman Memorial Prize (Physical Chemistry)

Awarded annually to a full-time or part-time student of the Bachelor of Applied Science – Applied Chemistry course or the multidisciplinary Bachelor of Applied Science – Chemistry major course who, in the opinion of the Head of Department, shows at the first attempt, the greatest proficiency in the second year Physical Chemistry subjects 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.

Surface Coatings Association (Qld 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'.

The Toshiba/AIR Ultrasound Prize

The Toshiba Ultrasound Prize, presented in association with the Australian Institute of Radiography and awarded to the student who achieves the best academic record in the first year of the Master of Applied Science – Medical Ultrasound Major.

Byron Watkins Prize

Awarded annually in honour of 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 major of the Associate Diploma in Applied Science course, who shows the highest level of achievement during the course.

Winthrop/AIR Travelling Fellowship

The Winthrop Travelling Fellowship, presented in association with the Australian Institute of Radiography and awarded to the graduand of the Bachelor of Applied Science – Medical Imaging Technology or Radiotherapy Technology course who achieves the best academic record over the three-year course.

STAFF

SENIOR OFFICERS OF THE ADMINISTRATION

At the time of compilation of this Handbook the University had not completed development of its administrative structure. The list below refers to an interim operating structure adopted in May 1990, but effective only until permanent arrangements have been approved.

Vice-Chancellor: Professor R.D. Gibson, BSc Hull, PhD DSc *N'cle (UK)*, FAIM

Deputy Vice-Chancellor: Professor T.C. Dixon, BEd (Hons) MA *Qld*, MLitt *NE*, PhD *Rensselaer*, FAIM

Pro Vice-Chancellor (Academic) (Acting): Emeritus Professor A. Cumming, MA(Hons) *Auck.*, PGCE *Lond.*, PhD *Otago*, FRHistS

Pro Vice-Chancellor (Research) (Acting): Professor K. Bowman, MSc *Optom Melb.*, FAAO

University Registrar: B.S. Waters, BCom *Qld*, AAUQ (Prov.)

Director of Administration (Acting): J.A. Nelson, BCom *Qld*, AAUQ, FASA, CPA

Interim Administrative Coordinators

Academic Administration: A.M. Brownhall, BA BEcon *Qld* (Academic Registrar)

Academic Services – Gardens Point campus: T. Cochrane, BA *Qld*, MPhil *Griff.*, ALIA (University Librarian)

Academic Services – Northern Campuses: G.M. Austen, BA(Hons) *Melb.*, GradDipLib *Canb.*, ALIA (Head, Resource Centres)

Administrative Computing: R.L. Fletcher, BSc MScSt *Qld*, MACS, MACM, MIEEE

Committee Services: E.E. Harding, BA *Qld*

Counselling and Health: D.B. Whitelaw, BA *UWOnt*, MA *Macq.*, EdD *Vanderbilt*, MAPsS

Equal Opportunity: L.M. Martinez, BA DipEd *Qld*

Finance: D. Brown, BBus *QIT*

Personnel: M. Toohey, BBus *QIT*

Property: R.W. Brownlie

Publications: I. Wynne

Public Relations: P.H. Hinton, BA *Qld*

Statistics for Planning: D.G. Greenwood, BEcon (Hons) *Qld* (Deputy Registrar)

ACADEMIC STAFF

The list of academic staff which follows is arranged according to the academic structure (Faculties, Schools, Departments) which existed at the time of compilation of the Handbook. It does not reflect the revised academic structure adopted by the Council on 3 October 1990 and used in Part 3 of this Handbook, Academic Programs. A revised staff list will be available about mid-1991 and will be published in the 1992 Handbook.

THE BUILT ENVIRONMENT

Faculty of the Built Environment, Gardens Point campus

Dean: Professor T.F.W.M. Heath, MArch MBldgSc *Syd.*, LFRAIA, MFRSA

Faculty Administration Officer: N. Bennett BA *Darling Downs*

Charles Fulton School of Architecture and Industrial Design

Head of School: Professor B.P. Lim, BArch DipTCP PhD Syd.

Senior Lecturers:

I. Charlton, BArch(Hons) *Qld*

J. De Vries, DipArch AcadArch *Amst.*

J.J. Donnelly, BArch *Qld*, DipBldgSci *Syd.*

P. Hedley, BArch DipUrbSt DipEd *Ill.*

G.A. Holden, DipArch MA(Urban Design) *Manch.*

D.A. Nutter, BArch(Hons) DipRTP *Qld*

V. Popovic, GradEngArch *Belgrade*, MFA *ID*, FDIA SPID-YU Yugoslavia

J.C. Woolley, BArch *Natal*, MArch *Witw.*, GradDipCompSc, MIA *SAust*

Lecturers:

J. Franz, BAppSc, DipT *Bris.*

D. Hardy, DipAD(Hons) *N'cle (UK)*, BA(Hons) *Lond.*

J.E. Hutchinson, BArch MURP *Qld*

D.S. Mengel, BAppSc *QIT*

S. Savage, BDesSt BArch(Hons) *Qld*, DipAdult&VocSt *Griff.*

A. Scott, BAppSc GradDipIndDes *QIT*

J.R. Stewart, BArch *Qld*, DipTown&CountPlan, CHS Ekistics *Athens*,

MArch *Calif., Berkeley*

K. Stewart, DipArch *K'ton*, GradDipIndDes *QIT*

School of Construction Management

Head of School: Professor D. Scott, BSc(Eng), PhD, FIE(Aust), FAIB, MICE, CEng

Principal Lecturer: G.B. Thomas, MS(Urban Planning) *Ill.*, ARICS, AIB

Senior Lecturers:

T.P. Boyd MSc(BldgMngmt) SCV, MPMINZ

D. Campbell-Stewart, DipQS *Qld*, FAIQS

J.A. Leicester, HND(ConstMan) *Brixton*, MSc(ConstMan) *Lond.*,

BEEd DipTeach *Adel.*

Lecturers:

L. Coyte, DipBuild *QIT*

K.D. Hampson, BEng(Hons) GradDipBusAdmin *QIT*

J.F. Hornibrook, DipBuild CTC

B.M. Woolnough, FRAIA

Department of Planning and Landscape Architecture

Head of Department: Assoc. Professor P. Heywood, BA(Hons) *Oxf.*,

DipTP *Manch.*, MRTPI, MRAPI

Senior Lecturers:

C. Bull, MLArch *Melb.*, FAILA, MAIH

B.U. Hudson, PhD *HK*, MCD, BA(Hon) *Liv.*, MRTPI, MRAPI

J.R. Minnery, BSc(Hons) *Cant.*, DipTP *Witw.*, PCE *Lom* MPubAdmin,

PhD *Qld*, MRAPI, MRAIPA

G. Williams, BArch *Qld*, DipLD *N'cle (UK)*, FAILA, ARAIA, MRAIPR, JP

Lecturers:

J. Brown, BA(Hons) MRegSc *Qld*, GradDipLib *Riverina*

C. Cameron, BFA *OWU*, MEnvSc *Miami*, GradDipUrb&RegPlan *QIT*

J. Davie, BSc(Hons) PhD *Qld*, MAI Biol

D. Low-Choy, MBE BA *Qld*, GradDipUrb&RegPlan *QIT*, MRAPI, MEIA, MAIC

J Mongard, BAppSc GradDipLandArch *QIT*

D. Poulton, GradDipLandArch *QIT*

M.A. Ryan, BArch *Qld*, GradDipLandArch *QIT*, FRAI, AAILA
S. Smith, BSc(Hons) *Qld*
G. Thomas, BArch *Qld*, GradDipLandArch *QIT*, FRAIA, AAILA

BUSINESS

Faculty of Business, Gardens Point campus

Dean: Professor B.C. Wolff, BCom *Qld*, PhD *Arkansas*, AAUQ, FASA, FAIM, CPA
Faculty Administration Officer: A.V. Lewis, BA(Soc Sci) *Capricornia*,
AIMM, MAITEA

Technical Services Section

Manager: L.A. Deakin, BEcon *Qld*

School of Accountancy

Head of School: Professor L. Edwards, BCom(Hons) MBA *Qld*, AAUQ, CT, FCPA,
ACA, FAIM

Principal Lecturer: J. Polichronis, BCom(Hons) MFM *Qld*,
FCPA, ASIA

Senior Lecturers:

Assoc. Professor P. Best, BCom(Hons) *Qld*, MEngSc *N'cle*, FCPA, MACS
R.W. Humphreys, BCom *Qld*, AAUQ, FCPA, FTIA
A. Ireland, BBus GradDipMgmt *Capricornia*, MBA *Qld*, AASA, CPA, ACIP
P. Little, LLB LLM *Qld*
M. McGregor-Lowndes, BA LLB *Qld*
A.M. Mirza, MCom *Qld*, FASA, CPA, ASIA
I. Nott, BCom MBA *Qld*, AAUQ, FCPA, AAIB
R. Radich, BBus *QIT*, MFM *Qld*, ACA
N. Sorby-Adams, BBus *Darling Downs*, MBA *Qld*, AASA, CPA, FTIA
J.W. Sweeting, BEc *Monash*, MEc *NE*, AASA, CPA
J.M. Whitta, BCom *NZ*, LLB *Cant.*, DipEducAdmin *Well.*, ACA (NZ),
CMA (NZ), ACIS
I.W. Yeung, BEc *Tas.*, MBA *Qld*, AASA, CPA

Lecturers:

R. Copp, BCom(Hons) BEcon LLB *Qld*
D. Delaney, BBus *QIT*, ACA
G. De Jager, BSc *NE*, MBA *NSW*, MACS
D. Gadenne, BBus *QIT*, DipEd *Vic*, MFM *Qld*, FCPA
A.R. Hunter, BBus *QIT*, GradDipCmlCmptg, MACS
N. Katter, LLB LLM *Qld*
C. Lambert, BBus *Darling Downs*, DipFinMgt *NE*, MBA *Qld*, AASA, CPA
S. Lazzarini, BCom(Hons) LLB(Hons) *Qld*
L. Munro, BBus *QIT*, AASA
C. O'Leary, BCom(Hons) *Cork*, ACA
H. Park, BBus *QIT*, ACA
S. Pelzer, BBus *QIT*, GradDipTeach *Bris.*, ACA
M. Percy, CertT *Kelvin Grove* BEcon BCom MFM *Qld*, AASA
S. Taylor, BBus *QIT*, AASA, AIMM
P. Whelan, BCom(Hons) *Qld*
S. Yuen, GradDipEd MSc *Sur.*, MBA *Oklahoma*, FCCA, AGS

Senior Tutors:

R. Kent, BCom(Hons) MFM *Qld*, AASA, CPA
J. McMaster, LLB *QIT*

Tutors:

K. Dunstan, BCom *Qld*, DipMgt *Capricornia*, AASA
F. Hannah, BEcon DipEd BCom *Qld*
A. Johnson, BBus *QUT*
K. Wyllie, BCom *NE*

School of Communication

Head of School: Professor B.M. Molloy, BA DipEd MA *Qld*, MLitt *NE*, PhD *Griff.*

Principal Lecturer: Assoc. Professor H.A. Stevenson, MA *Hawaii*, FPRIA, APR

Senior Lecturers:

P.H. Crowe, BS *Syr.*, MA *Iowa*, PhD *Suny-A*
S. Cunningham, BA(Hons) *Qld*, MA *McGill* PhD *Griff.*
L.A. Granato, BA *Central Missouri State*, MA PhD *Southern Ill.*
V.A. Henderson, MBus(Comn) *QUT*, FAIA
B.J. Murchison, BBus(Com) *QIT* MBus(Com)
P.M. Neilsen, BA(Hons) MA PhD *Qld*
R.R.L. Williams, BEd *Qld*, MA *Loyola*, SMPTE, PDGA

Lecturers:

L. Bowman, BA *Qld*
P.D. Byde, BA *NZ*, BEd(Hons) *Camb.*, MEdStud *Qld*
S.J. Fitzpatrick, BBus(Com) *QIT*, FAIA(Dip)
C. Hippocrates, BA *Qld*
K. Madden, BBus(Comn) *QIT*
P.M. McCarthy, BA *Qld*, LSDA(Board), FTCL *Lond.*
P.L. McLean, BA DipEd MLitSt *Qld*
R. Petelin, BA *Qld*, ASDA
W. Scaife, BBus(Comn) *QIT*
I. Stocks, BA(Hons) *Monash*
P. Young, BA *Deakin*, MDefStud *NSW*
M. Zlobicki, BBus *QIT*, MSPD *Qld*

Senior Tutors:

C. Hatcher, BA *Qld*, BEd *Bris.*, ASDA, LTCL
J. Malone, BA DipEd *Qld*

Tutors:

K. Donst, BBus(Comn) *QIT*
P. Mountjoy, BA *Griff.*
P. Schembri, BA(Hons) DipEd *Qld*, BBus *QUT*

Electronic Publishing Support Staff Senior Instructor: R. Prentice

Technical Support Staff Senior Technician: D. Harvey

School of Management

Head of School: Assoc. Professor T.J.C. Robinson, BEcon(Hons) PhD *Qld*

Senior Lecturers:

D.J. Blackmur, BEcon(Hons) MLitSt PhD *Qld*, MACE
D.K. Conroy, BA MPubAdmin *Qld*
B.L. Delahaye, BBus *QUT*, MBA *Qld*, AAIM, MIPMA, MAITD
J.L. Forrest, BEcon MPubAdmin *Qld*
R.E. Hicks, BA *NE*, MA DLittPhil *SA*, PGCE(Ed) *Lond.*, ThC(IVF *Aust*),
FAPsS, FBPsS, FAIM, MQCA

P.R. Hindson, BEc Syd., MPH Calif., Berkeley, MACS, MASHE, AHA
C.R. Perry, BA LittB MEc NE, MEc PhD ANU, MASOR, AFAIM
B.J. Smith, BEcon(Hons) MEcon Qld, AITD
A.W. Williams, BCom DipEd NSW, MEcon Syd., PhD Qld, FCIT
S.M. Wong, BCom&Admin Vic., MBA Qld, AAIM, ANZIM

Lecturers:

E. Atuahene, MCom(Mkt) Syd.
D.F. Best, GradDip BusAdmin GDLibSc QUT, BA Qld
P.G.H. Carroll, BA(Hons) MSc Soton
J.M. Crittall, BEcon(Hons) Qld
L.A. Deakin, BEcon Qld
C. Dickenson, BBus(Mgmt) QUT
K.J. Donohue, BEcon MEconSt Qld, MA Essex
E.J. Duhs, BSc BA AEd MEcon Qld, ASIA
W.A. Edwards, BCom(Hons) Qld
T.L. Euler, MBA Qld, AssocDipMechEng, AAIEx
P.J. Flynn, BA BEcon(Hons) MEconSt Qld
G.N. Hearn, BSc(Hons) PhD Qld
O. Kurer, DipBusStud HWV Zurich, MBA Chic., MSc(Econ) PhD Lond.
P.T. Mansour-Nahra, BA PhD N'cle
M. McGovern, BSc DipEd BEcon M Reg Sc Qld
J. McMillan, BA(Hons) Qld
J.J. Mitchell, BA DipEd Macq., AssocDipMedRecAdmin Cumberland
J.J. Parisi, BBus QUT
G.N. Southey, BBus DipPsych(Hons) MAppPsych Qld
P.J. Sutcliffe, BEcon(Hons) MEcon(Hons) Syd.
Principal Tutor: P.G. Morgan, BA Griff.

Key Centre in Strategic Management

Director: Professor G.P. Palmer, BSc Birm., MSc Lond., PhD City, UK

Rural Management Development Centre

Executive Officer: P. Huthwaite

School of Business, Kedron Park campus

Head of School: S.C. Thompson (Acting), BCom(Hons) MFM PhD Qld,
FCPA (Management Accounting), FCIS, FCIM, ACA

Department of Accounting and Law

Head of Department: S.C. Thompson, BCom(Hons) MFM PhD Qld,
FCPA (Management Accounting), FCIS, FCIM, ACA

Senior Lecturers:

T.J. Black, BCom MFM Qld, FASA, CPA (Financial Reporting), ACANZ, ACIS
L.M. Gallagher, CertT BCom MFM Qld, CPA
P.F. Green, BCom BSc MInfoSys Qld, CPA, MACS
C.M. Ryan, BCom DipEd MFM Qld, CPA

Lecturers:

C. Anderson, BCom(Hons) LLB(Hons) DipEd Qld, ASA
S. Buckby, BBus QUT
J. Carnpbell, BCom(Hons) MFM Qld, CPA
M. Christensen, BBus Bris., MFM Qld, CPA, ASIA

C.N. Gaunt, BBus *Bris.*, MFM *Qld*, CPA, ASA

P. Gray, BCom *Qld*

M. Hocken, BA *Capricornia*, LLB *QIT*, Barrister at Law

L.J. Law, LLB(Hons) *QIT*, Solicitor

E. McDade, TCert *Jordanhill*, TDipCom *Strath.*, BEdSt *Qld*

M. Pearce, BCom *Qld*, LLB *QIT*, ASA

Senior Tutors:

R. Maggs, BCom LLB *Qld*, GDLegal Practice *QIT*, ASA, Solicitor

L. Wiseman, LLB(Hons) GDLegalPractice *QIT*, Solicitor

Department of Administration and Management

Head of Department: E.C. Saragossi, BA(Hons) *Qld*, ATCL, AIMM, MAPsS

Lecturers:

J.N. Chapman, BA DipPsych *Qld*

J. Evans, BA DipEd *Qld*, ASDA

K. Hallt, BBus(Man) *QIT*, MBA *Qld*

S.L. Harding, BSc(Hons) *ANU*, MPubAdmin *Qld*, RAIPA, AITD

C. Hindmarsh, BA *Capricornia*, AIPS

T. Laing

A.M. McDiarmid

N.T. Meyers, BA *Qld*, MLS *Calif., Berkeley*

L. Parsons, CertT *Kelvin Grove*, BA MEdSt *Qld*

J.J. Radbourne, DipT *Kedron Park*, BA MA *Qld*, LSDA(Aust.), ATCL

R. Thompson, BA(Hons) MPsyApp *Qld*

Department of Computing

Senior Lecturer: H.H. Bentley, TCert *StLukes*, BSc(Hons) *Manch.*, MSc *Qld*, MACS

Lecturers:

P. Bancroft, BSc MScSt *Qld* GradDipComComp *QUT*, CertTech *Kelvin Grove*

X. Li, BSc *Long qing*, MSc *Qld*

H.M. Maitland, BAppSc(Maths) *QIT*, DipEd *Qld*

M. Orlowski, MSc PhD *Warsaw*

N. Richter, BEng *Syd.*, MEngSc DipCompSc BA *Qld*

G. Semeczko, BSc(Hons) *Qld*

A.G. Stewart, BA DipEd *Qld*, MACS, AIMM

D. Taylor, BSc *Qld*, MSc *Va State*, MACS

Department of Industrial Relations

Head of Department: D.A. Lambert, DipSS *Oxf.*, BSc *Wales*, MSc(Econ) *Lond.*,
PhD *ANU*

Principal Lecturer: H. Guille, BSc(Hons) *R'dg*, PhD *Griff*.

Lecturers:

C. Kynaston, BA(Hons) *Leic.*

R.B. Sappey, BEc(Hons) *Syd.*, MSc(Econ) *Lond.*

G. Strachan, BA(Hons) DipEd *Qld*, AITD

M. Winter, BA *NSW*, GDMgt *Capricornia*

Department of Marketing and Applied Economics

Head of Department: P.A. Cassidy, QDA *QAC*, MAgrSc PhD *Qld*

Lecturers:

M.J. Briggs, MBA *Qld*, GDEdAdmin *Hawthorne*

G.K. Chittick, BEcon *NE*, BA *Macq.*, DrSec *Amst.*

C.W. Collyer, BEcon(Hons) MEconSt *Qld*
 M. Doody, BSc *Qld*
 S. Ferris, BA(Hons) Psych *Qld*
 A.M. Gillingham, BEcon(Hons) BSc DipEd *Qld*
 H. Higgs, BEcon(Hons) DipEd MEconSt *Qld*
 J. James, BEcon MEcon *Qld*
 E. McCann, BSc(Econ) *Qld*, GCertEd *Leeds*, MEc *NE*
 M.J. Quayle, BEcon MPIEcon PhD *Qld*
 H.J. Stuart, BSc DipEd *NE*, MA *ANU*, AAMI

EDUCATION

School of Early Childhood Studies, Kelvin Grove campus

Head of School: G.F. Ashby, MA DipEd *Otago*, FACE

Department of Care and Education

Head of Department: S.V. McLean, DipT *BKTC*, BEdSt *Qld*, MEd PhD *Arizona*

Senior Lecturers:

G.L. Halliwell, CertT *Kelvin Grove*, DipT *BKTC*, BEdSt *Qld*, MSc *Ill.*
 S. Wright, BEd MED *Alta*, PhD *N'cle*

Lecturers:

B.J. Broughton, CertT *Kelvin Grove*, DipT *BKTC*, BEdSt *Qld*, CDTRT
 C.R. Campbell, BA MEdSt *Qld*, GDE(RE) *McAuley*, Dip *ANZATVM*
 D.E.S. Gahan, DipT *BKTC*, BA *Qld*, MEd *Ill.*
 N.S. Gilbert, CertEd BEd(Hons) *Exe.*, MEd *Flin.*, GDUC *SAustCAE*, MACE
 S.J. Grieshaber, DipT *Mt Gravatt*, BEd MED *Qld*
 N.L. McCrea, BA MA *St Jose*, STC(EC) *UCS*
 J.J. Mobbs, DipT(EC) *Murray Park*, BEd *Hartley*, MEd *Qld*
 B.A. Piscitelli, BA *Keuka*, MEd *Antioch*
 K.M. Throssell, FroebelCert CertEd *Birm.*, BEdSt *Qld*

Senior Tutors:

T.R. Armstrong, DipT(EC) *Bris.*
 D. Le Clercq, DipT *Kelvin Grove*, BEd *Mt Gravatt*
 D.C. McArthur, CertT *Kelvin Grove*, GDAEd *Townsville*

Department of Child and Family Development

Head of Department: G.M. Boulton-Lewis, CertT *NSW*, BA PhD *Qld*,
 MEd *Canb.*, FACE

Senior Lecturer: J.M. Kean, MA DipEd *Otago*, DipT *DC*, DipEdPsych *Auck.*,
 LTCL *Lond.*

Lecturers:

D.C. Berthelsen, DipT *Kedron Park*, CertSpecEd *Mt Gravatt*, BA(Hons) MA
 AppPsych *Qld*
 D.F. Catherwood, BA(Hons) PhD *Qld*
 M.B. Henry, BA *Syd.*, DipEd MEdSt *Qld*
 R.L. Hooper, DipT *Townsville*, BEd *James Cook*
 K.A. Irving, BA(Hons) *Qld*
 J.M. McDonell, DipKTC BScEd *Mills Coll.*, NY, MScEd *Bank St Coll.*, NY
 D.L. Nailon, CertT *Kedron Park*, DipT *BKTC*, BEdSt *Qld*

Senior Tutors:

C.J. a'Beckett, DipKTTC *Melb.*, GDEdSt *IECD*

K.L. Martin, DipT(EC) *Bris.*

Early Childhood Centre

J. Brown, DipT *BKTC*

M. Brown, ADCC *Bris.*

School of Teacher Education, Kelvin Grove campus

Head of School: P.W. Thomas, BSc(Hons) DipEd *Wales*, MA *Lough.*,

PhD *Qld*, MACE

Assistant Head of School: K.B. Lucas, BSc MEd *Syd.*, DipEd *NE*, MSc *Macq.*,

PhD *Indiana*

Department of Commercial Studies

Head of Department: A.V. Wolff, BCom BEcon *Qld*, MSc *Kansas*, AIMM,

AASA, AAUQ, CPA

Senior Lecturers:

R.A. Gibson, BEcon MSocSc *Qld*

L.A. Kirkwood, BCom BEd MEdSt *Qld*, AAUQ

Lecturers:

T.V. Cronk, BA(Hons) *Qld*, MA *Lond.*, GDBusAdmin *QIT*

J.C. Falt, BEcon BEdSt *Qld*, MEd *Ohio S.*

E.J.C. Locke, BCom BEd MEdSt *Qld*, GDCompEd *Bris.*, AAUQ

D.S. Pang, BCom BEd MBA *Qld*, AIMM, AASA, AAUQ, MACE, CPA

M. Salidu, BA LLB *Qld*

L.E. Simpson, DipT *Mt Gravatt*, BEd *Bris.*

T.A. Stanley, BCom DipEd *Qld*, MSc *Griff.*, AASA

E.A. Woodward, BCom *Qld*, BEd *Bris.*

Department of Communication and Resource Studies

Head of Department: W.T. Corcoran, BA DipEd *Qld*, MLitt *NE*, MA PhD *Alta*

Senior Lecturers:

F.K. Allen, BA BEd *Qld*, LittB *NE*, MEd *Exe.*, MACE

J.H. Bissett, STCert *Jordanhill*, MA *Glas.*

J.G. Borthwick, BA *Syd.*, MEdSt PhD *Qld*

G.A. Browne, BA BEd MLitSt *Qld*, L-es-L *Lille*

G.D. Bruce, BA(Hons) BEd *Qld*, MA PhD *NY*

G.L. Chapman, BA *Syd.*, BLS *Br. Col.*, ALAA, MACE

J.L. Talty, BA *Syd.*, MA *Macq.*

Lecturers:

M. Aitken, BA(Hons) DipEd PhD *Qld*

C.S. Higgins, BA MEd MLitSt *Qld*

L.J. Linning, BA(Hons) BEdSt *Qld*

P. Lupton, TCert DipTeach GDTech-Lib BEd *Bris.*

G. MacLennan, BA DipEd *Belf.*, MA *Essex*

K.M. Mallan, DipTeach *Mt Gravatt*, BEdSt MEdSt *Qld*, GDTech-Lib *Kelvin Grove*

V. Muller, BA(Hons) DipEd MLitSt *Qld*

S.M. Pearce, BA *Adel.*, MLitt PhD *James Cook*

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Department of Education Studies

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D.J. Stewart, DipT *NZ*, BA *Otago*, MA *Auck.*, MEd Admin *NE*
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Department of Human Ecology

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Centre for Studies in Teaching

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K. Mann, DipT *Kuring-gai*, BA *Macq.*, GradDip(Aboriginal Studies) *SAIT*

Extension Services

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Institute of Applied Linguistics

Director: E. Burke, TPTC *ASOPA*, DipTESL *Trin. Coll.*, MA *Lanc.*, PhD *MSU*

Deputy Director: J. Stanley, BSc(Econ) *Lond.*, MA *Lanc.*, MSc *Edin.*, DipEd *Exe.*

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School of Teacher Education, Carseldine campus

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 H.B. Axford, BMus Melb.
 V.L. Garnons-Williams, BEd(Sec) Br.Col., GDProfArt Syd. CAE, MEd(Art) Br.Col.
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Department of Mathematics, Science and Computing

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L.D. English, DipT BEd MEd *Kelvin Grove*, PhD *Qld*

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Department of Studies in Education

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Aboriginal and Torres Strait Islander Education Program

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ENGINEERING

Faculty of Engineering, Gardens Point campus

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Barrister of the Supreme Court, *NSW*, FIEAust

N.O.T.E. Coordinator: W. Mathieson, AssocDipMechEng *QIT*, MAIEA, MID,
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Faculty Administration Officer: J. Mannion, BA *Qld*, GradDipCommComputing *QIT*

School of Civil Engineering

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School of Electrical and Electronic Systems Engineering

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Lecturers:

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HEALTH AND SOCIAL SCIENCE

Faculty of Health Science, Gardens Point campus

Dean: Professor A.J. Webber, MS *G'townWashDC*, PhD *Qld*, DMT, FAIMLS
Faculty Administration Officer: M.McCreath, BA *Qld*

Medical Laboratory Science

Head of Department: Assoc. Professor J.S. Welch, MSc PhD *Qld.*,
MPH *Syd.*, FAIMLS

Assoc. Professor: J.L. Dale, BScAgr *Qld*, PhD *Syd.*

Senior Lecturers:

J.G. Aaskov, BSc *Qld*, PhD *Leeds*, FASM

D.J. Allan, QDAH(Hons) BSc(Vet) BVSc(Hons) MB BS PhD *Qld*

D.E. Allen, BSc(Hons) *Birm.*, PhD ANU, FRMS, AAIMLS

E.A. Bennett, BA BSc *Qld*

P.P. Stallybrass, BAppSc *QIT* MS *Buffalo, NY*, DMT, FAIMLS

P. Timms, MSc PhD *Qld*, MASM

P.A. Wood, BSc(Hons) PhD *Qld*, MASM, AAIFFT

Lecturers:

A.J. Anderson, BSc(Hons) MSC *Qld*

H. Carberry, BAppSc(MedTech) GradDipNutDiet *QIT*, GradDip Media *AFTRS*

T.N. Cassidy, BSc BA *Qld*

J.F. Coulson, BPharm(Hons) *Lond.*, MPharm *Qld*, PhD *Strath.*, PhC, MASM

C.J. Craven, MSc *Qld*, MAACB, AAIMLS

R.J. Epping, BSc(Hons) PhD ANU

T.H. Forster, MAppSc *QIT*, AAIMLS

L. Hafner, BSc(Hons) PhD *LaT.*, MASM

A. Pope, BSc *Qld*, CT(IASC), CT(ASC), AAIMLS

R.J. Sheedy, BSc(Hons) *Qld*

T.P. Walsh, BSc(Hons) PhD *Qld*

Tutor: F. Horne, BAppSc *QUT*

School of Nursing

Head of School: Professor M.E. Clinton, BA, PhD, SE Teach Cert, RCNT,
P-G Cert Ed, RNT

Senior Lecturers:

A.L. Dewar, BA BScN *Sask.*, MHP *NSW*

J.D. Gaskill, MAppSc GradDipHealthSc *Curtin*

J.W. Penridge, BEdSt *Qld*, DipNEd

K.S. Stolz, MS *Roch.*, DipNAdmin, BBus

Lecturers:

J. Cattoni, BA

D. Collins, BA *Qld*, BAppSc

I.M. Coonan, BAppSc *Curtin*, MNrsAdmin

M.L. Curry, BAppSc

H. Edwards, BA *Qld*, DipAppSc

R. Elder, BA *Qld*

M. Harris, DipComHlth Nrs, BBus

R.E. Nash, BA *Qld*, DipAppSc

M. Nebauer, BAppSc

F. Sanders, BA *Qld*, DipAppSc *LaT.*, MSoc PlanDev

L. Stockhausen, Dip Teach, BEd

D. Weir, BA BSc *Flin.*

C. Windsor, BA *Griff.*

Optometry

Head of Department: Professor K.J. Bowman, MScOptom *Melb.*, LOSC, FAAO

Assoc. Professor: B. Brown, BSc MAppSc PhD *Melb.*, LOSC

Senior Lecturers:

D.A. Atchison, MScOptom PhD *Melb.*, FAAO
M.J. Collins, MAppSc, FAAO
J.E. Kitchin, MScOptom *Melb.*, GradDipRehab *LaT.*, LOSC, FAAO
P.G. Swann, BSc(Hons) *Aston*, MAppSc, FBCO, FAAO

Lecturers:

J.D. Bevan, GradDipHE *Bris*, DipAppSc
C.F. Wildsoet, BSc(Hons) *Qld*, DipAppSc

Research Fellow:

J. M. Wood, BSc(Hons) PhD *Aston*

Public Health & Nutrition

Head of Department: Professor C. Reilly, BPhil *Gregorian Faculty Tullamore*,
BSc PhD *University College Dublin*, HDipEd *Clongowes Wood College*

Senior Lecturers:

M.F. Capra, MSc *Syd.*, PhD *Otago*
S. Capra, BSc(Hons) DipNutDiet *Syd.*, MSocSc *Birm.*, MDAA, AHA
B.E.H. Fleming, DipPHInsp *RSH*, BSc MSc *Griff.*, MAIEH, MEIA
A. Crawford, Teachers Cert *Manch.*, BEd

Lecturers:

C. Dallemagne, MB BS *Brussels*, GradDipTropMed *Antwerp*, PhD *Qld*
P. Davey, BBus(Health Admin), AssocDipHlthSurv
R. Elwell-Sutton, DipAppScPod *QIT*
T. Farr, BDesignStud *Qld*, GradDip OHS *Curtin*
H.S.F. Loh, BSc *NE*
B.W. Macdonald, BSc *Qld*, BAppSc
W. McLaren, DipAppSc
C. Patterson, BSc MSc PhD *Qld*, GradDipBusAdmin *QIT*
B.G. Stevens, BSc *Qld*
D. Stormont, BSc MSc *Qld*, GradDip ND *QIT*
P. Tinley, BSc *CNA*
J.A. Young, BSc (Hons) PhD *Qld*
M.O. Young, BA BSc MB BS *Qld*
Principal Tutor: A. Moor, BSc *Nott.*, DipNutDiet *Lond.*
Senior Tutor: A. Tooma, BSc *Qld*, GradDip ND *QIT*
Tutor: T. Yi, BSc *Beijing*

School of Health and Welfare Studies, Carseldine campus

Head of School: G.E. Embelton, BA BD MEdSt *Qld*, PhD *MichS.*, DipRE
MCD, MAPsS

Department of Community Studies

Head of Department: M. O'Connor, DipT *Kelvin Grove*, BEd *Qld*, MA *Ohio S.*

Senior Lecturers:

G.E. Guy, BA DipPsych MEdSt *Qld*, MEd *NE*, MAPsS
G.M. Schofield, BA BSocWK(Hons) *Qld*, MSc(Econ) *Lond.*, MAIWO

Lecturers:

M.P. Albrecht, BA MA *Cant.*
P.R. Crane, BA *NSW*, GDOOutdoorED *Bris.*
L.I. Chenoweth, BSocWk *Qld*

R.J. Daniels, BSocWk BEcon MSPD *Qld*
 M.T. Evans, BA BSocWk(Hons) *Qld*
 K. Gow, BA(Hons) *Qld*
 A.M. Harper, BSocWk *Qld*
 J.B. Holloway, BOccThy *Qld*
 R.D. Lowe, BA(Hons) MPsych NSW, MAPsS
 S. McCulloch, DipT *Capricornia*, BA(Hons) MAppPsych *Qld*
 C. McDonald, BSocSt Syd., MSocWkAdmin & Planning *Qld*
 E. Parker, BA MSocWk *Toronto S.*
 K.E. Tully, DSSt Lond., BA *Open*, MA *Essex*
 R.D. Waters, BAppSc BD *Qld*, CPE NSW
Principal Tutor: D.N. Barker, DPT *SydTC*, BA MPsych NSW
Tutor: R. Grindrod, BA *Qld*
Honorary Consultant to the School: A. Unwin, MBBS, FRANZCP, MRC Psych DPM

INFORMATION TECHNOLOGY

Faculty of Information Technology, Gardens Point campus

Dean: Professor D. Longley, BSc(Physics)(Hons) *Manch.*, MSc(Tech) *UMIST*,
 PhD *Leic.*, CEng, FIEE, FAIM
Faculty Administration Officer: M. McDowell, BA *Qld*, BSc(SocSc)(Hons) *Brist.*

School of Computing Science

Head of School: Professor K.J. Gough, MSc PhD *Well.*, FNZEI, MIEEE,
 MACM, MACS

Senior Lecturers:

P.T.J. Cattell, DipEd BSc BEd DipCompSc *Qld*, MSc *Essex*, MACS
 G.M. Mohay, BSc(Hons) *WA*, PhD *Monash*, MACS, MACM, AIEEE
 M.G. Roggenkamp, BEd *James Cook*, DipCompSc MScSt *Qld*, MACS,
 MACM, AIEEE

J. Sitte, PhD *Uppsala*, APS, INNS

Lecturers:

K.F. Anderson, BSc(Hons) *Strath.*, DipEd *Dun*, DipInfProc *Qld*, MACS, MACM
 H.A. Bergen, BSc(Hons) *Massey*, PhD *NSW*, DipCompSc *Qld*
 R.J. Christie, BA DipCompSc *NE*, DipTeach *N'cleCAE*
 J.D. Day, BE(Hons) *Syd.*, GradDipCompSc MEngSc PhD *Qld*, MACS, MACM
 L.J. Dunn, BA *Qld*, MA *WA*, MLAS, MACM
 G.D. Finn, BSc(Hons) PhD *Qld*, MS *Hawaii*
 J. Holford, DipEd *Qld*, BAppSc(Physics) GradDipCompSc *QIT*, CEG
 J.R. Hynd, BSc(Hons) *Qld*, PhD *Syd*, MACS, MACM
 G. Low, BAppSc ADipA *Mitchell*, GradDipManagement *Capricornia*, MACS
 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: Assoc. Professor B.A. Underwood, BBus *QIT*, MS(MIS) *TexasTech*,
 MBA *Qld*, MACS

Principal Lecturer: J.C. Owen, BA(Hons) *Lond.*, MA PhD *Qld*, AdvCertLibSci
MLS Pitts, GradDipCommComp *QUT*, ALIA

Senior Lecturers:

A. Anderson, BSc MInfSys *Qld*, MACS

M.R. Middleton, BSc *WA*, MScSoc GradDipLibSc *NSW*

R.W. Smyth, BA DipEd DipInfProc *Qld*, MSc *Aston*, MACS, AISA

A.B. Tickle, BSc DipCompSci MSc *Qld*, GradDipManagement *Capricornia*, MACS

Lecturers:

D. Edmond, BSc(Hons) *Edin.*

S. Geva, BSc *Hebrew*, GradDipCommComp *QIT*, MAppSc *QUT*

J.S. Goodell, BA *Lafayette Coll*, MS AdvMLS PhD *Florida State*, AAIM, ARMA

K. Ling, BSc *Melb.*, GradDipDP *Caulfield*, GMIEA, MACS

S. McGinnes, BSc(Hons) *Birm.*

J. Reye, BSc(Hons) *Qld*, MIEE, MACS, MACM

C. Tilley, BA(Hons) MA *Qld*, DipContEd *NE*, GradDipLibSc *QIT*, ALIA, AAIM,
IIMC

J.J. White, BA MA MLS *UWOnt.*, PhD *Qld*, MACS

C.S. Willie, BA *Utah*, MBA *Br.Col.*, AUUG, BRISBUG

Tutors:

R. Andrews, DipTeach BEd GradDipCommComp *QUT*

J. Lemon, BAppSc *QIT*

LAW

Faculty of Law, Gardens Point campus

Dean: Professor D.G. Gardiner, BA LLB *Syd.*, Barrister

Faculty Administration Officer: J.K. Blyth, BA(SecStudies) *Capricornia*, FIPS, JP

Law Library

Law Librarian: T.C.M. Hutchinson, BA LLB *Qld*, DipLib *NSW*, GradDipLegalPrac

Assistant Law Librarian: E. Jensen, BA LLB *Qld*, GradDipLegalPrac

Centre for Commercial and Property Law

Professor W.D. Duncan, LLB *Qld*, LLM *Lond.*, Solicitor (Feez Ruthning
Professor of Property Law)

Professor C.D. Gilbert, BA LLB(Hons) LLM *Qld*, DJur *York*, Barrister and Solicitor
(ACT), Solicitor (Qld) (Henderson Trout Professor of Commercial Law)

Faculty of Law

Assoc. Professor: T.R. Sappideen, LLB *Ceyl.*, LLM *Syd.*, LLM *Penn.*,
LLM *SJD Col* (Director of Research and Postgraduate Studies)

Principal Lecturer: C.A.C. MacDonald, BA LLB *Qld*, LLM *Lond.*, Solicitor

Senior Lecturers:

P.A. Butler, LLB *Qld*, LLM *Lond.*, Barrister

G.R. Clarke, BA LLM *Qld*, Barrister

S.G. Corones, BCom LLB *Qld*, LLM *Lond.*, Solicitor (Qld and England and Wales)

G.A. Egert, BA LLM *Qld*, Barrister

G.E. Fisher, BA(Hons) LLB(Hons) *Qld*, BCL(Hons) *Oxf.*

R.J. Sibley CertEng LLM *Qld*, Barrister

P.V. Tahmindjis, BA LLB *Syd.*, LLM *Lond.*, Barrister (NSW)

A.E. Wallace, LLB *Qld*, LLM *Monash*, Solicitor

I.A. Wilson, LLM *Melb.*, Barrister and Solicitor (Vic.), Barrister (Qld)

Lecturers:

D.A. Butler, LLB
S. Chandra, LLB LLM *Cant.*, NZ, Solicitor
S.E. Colbran, BCom(Hons) LLB(Hons) *Qld*, Solicitor
I.T. Davies, LLB GradDipLegalPrac, Solicitor
A.M. Duetz, LLB, Solicitor
H.M. Endre, LLB *Adel.*, Barrister
W.M. Finch, BA(Hons) *Simon Fraser*, LLB *Br.Col.*, Barrister and Solicitor (Br.Col.)
K.V. Frangos, LLB(Hons) *QUT*, Solicitor
T. Johnson, LLB *Qld*, LLM *Cant.*, Solicitor
A.I. MacAdam, BCom LLB *Qld*, Barrister
R. Macdonald, BA LLB *Qld*, GradDipLegalPrac, Solicitor
P. MacFarlane, BA *Flin.*, BLS *Macq.*, LLM *Syd.*, Barrister
G. Mackenzie, LLB, Solicitor
F.A. Martin, LLB(Hons) *UTS*, Solicitor (NSW)
F.D. McGlone, BA DipEd LLB *Syd.*, Barrister
G.E. Nisbet, BA SocWk *Qld*, LLB, Solicitor
J.R. Pyke, BSc *Syd.*, LLB *NSW*, Barrister (NSW)
M.M.J. Ridley, BA LLB *Qld*, GradDipLegalPrac, Solicitor
D.J. Robinson, LLB, GradDipLegalPrac, Solicitor
S. Somerville, BA LLB(Hons) *Qld*
L.A. Taylor, BA LLB *Qld*, Solicitor
S. Tongue, BA LLB(Hons) *ANU*, Barrister and Solicitor (ACT, NSW, Vic.)
V.M. Vidas, BA LLB *Qld*, Solicitor
L.M. Willmott, BCom LLB *Qld*, LLM *Camb.*, Solicitor

Legal Practice Course

Director: Assoc. Professor J.K. deGroot, BA LLB *Qld*, Solicitor

Senior Lecturer: A.J. Chay, LLM *Qld*, Solicitor

Lecturers:

K.F. Maxwell, LLB, GradDipLegalPrac, Solicitor
J. Pastellas, BA LLB *Qld*, GradDipLegalPrac, Solicitor

SCIENCE

Faculty of Science, Gardens Point campus

Dean: R.B. Gardiner, MA BSc(Hons) PhD *Edin.*, CPhys, FInstP, FAIP

Assistant Dean (Students): D.W. Field, BSc(Hons) PhD *Adel.*, DipT *Armidale*

Administration Officer: G.N. Scott, BEng *NSW*, MSc *Lond.*, ThA (*AustCollTheol.*),
AIMM

Development Manager: K.D. Pulsford, BBus

Department of Applied Geology

Head of Department: D. Gust, BA *Lawrence*, MA *Rice*, PhD *ANU*

Principal Lecturer: L.H. Hamilton, BE MSc *NSW*, PhD *Lond.*, DIC, FAIG, FAusIMM

Lecturers:

A.V. Arakel, BSc *Shiraz*, PhD *WA*

D.C. O'Connell, BSc DipEd *Qld*, MSc *James Cook*, BEd *Bris.*, FGS(*Lond.*),
MAusIMM

W.F. Ridley, BSc MSc *Qld*

G.G. Shorten, BSc MSc *Qld*, TCert *Kuring-gai*, MAusIMM

J.P. Williams, BSc *Syd.*, MAppSc *QIT FRAS*

Senior Technical Staff: W. Kwiecien, CIC, AssocDipAppChem,
Senior Laboratory Technician: B.J. Feely, MIST, Tech CEI

Department of Biology

Head of Department: A. Bailey, BSc(Hons) *Liv.*, PhD *Adel.*, CBiol, MIBiol,
MAIBiol, MAIH

Senior Lecturers:

W.A. Dodd, MSc *Adel.*, PhD *Alta*, MAIH

J.C. Wilson, MAppSc, CBiol, MIBiol

G.H. Yezdani, MSc *Sind*, PhD *Monash*, CBiol, MAIBS, MAIBiol

Lecturers:

G.J. Kelly, BSc(Hons) PhD *Syd.*

C.R. King, BSc *Lond.*, MSc *Salf.*, PhD *Qld*, ARCATS, MAIBiol

P.B. Mather, BSc(Hons) PhD *LaT.*

B.J. McMahon, MSc *Qld*, CBiol, MIBiol

N.A. White, MAppSc

I. Williamson, BSc(Hons) *Griff.*, PhD *Flin.*

Senior Technical Staff:

K.D. Barton, CMLT, BAppSc

M. Crase, AssDipAppBiol

M. Hague, AssDipAppBiol

Department of Chemistry

Head of Department: S.F. Dyke, BSc(Hons) DSc *Lond.*, PhD *Aberd.*, CChem,
FRSC, FRACI

Senior Lecturers:

J.P. Bartley, MSc(Hons) PhD *Auck.*, CChem(UK), MRSC, AAFST

M.R. Chambers, PhD(Econ) *Stir.*, PhD *Lond.*, CChem(UK), MRSC

R.L.W. Frost, BEd MSc PhD *Qld*, CChem, ARACI

P.S. Hallman, MSc PhD *Syd.*, CChem, ARACI

P.J. Hetherington, BSc(App)(Hons) PhD *Tas*

S. Kokot, BSc(Hons) PhD *NSW*, CChem, FRACI

E.J. O'Reilly, MSc *Qld*, DipEd, CChem, FRACI

D.P. Schweinsberg, ASTC BSc *NSW*, MSc PhD *Qld*, CChem, ARACI, AMAusIMM

G. Smith, BSc PhD *Qld*, DipIndChem, CChem, ARACI

Lecturers:

D.P. Arnold, BSc PhD *Qld*, CChem, ARACI

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

D.S. Sagatys, BSc(Hons) *Qld*, PhD *IIT*

B.N. Venzke, MSc PhD *Qld*

Laboratory Manager: N.A. Seils, DipIndChem

Senior Laboratory Technicians:

P. Comino, CIC, AssocDipAppChem

P. Stevens, CIC, AssocDipAppChem

School of Mathematics

Head of School: A.N. Pettitt, MSc(Hons) PhD *Nott.*, FSS, MSSA

Senior Lecturers:

V.V. Anh, BSc(Hons) PhD *Tas.*, MEc *NE*

C.M. Bothwell, BSc BEd MLitSt *Qld*, ALCM

J. Gudgeon, BSc(Hons) *Hull*, MSc *Oxf.*, FIMA

H.L. MacGillivray, BSc(Hons) PhD *Qld*

I.F. Ogle, MSc *NE*, FSS, MSSA

J.G. van Leersum, BSc BE(Hons) PhD *Monash*

A.M.B. Wolanowski, MSc *Lublin*, PhD *Warsaw*, DipCompSc *Qld*, MSSA, AMACS

Lecturers:

C.C. Calder, MSc *Lond.*

E.P. Dawson, BSc DipEd *Wash.*, MA *Syd.*, MLitSt MSc *Qld*

D. Huang, MSc PhD *Peking*

R.F. Hubbard, BA *NZ*, MLitSt *Qld*

M. Ilic, MSc *Qld*

M.T. Kelly, BSc DipEd MLitSt *Qld*

E. Kozan, MSc *MidEastTechUniv*, PhD *Hacettepe*

M.R. Littler, DipMath(Tech) BSc(Hons) *Lond.*, AFIMA, CEng, FIMarE

M.S. Mackisack, BA(Hons) *Macq.*, BSc(Hons) *Monash*, DipEd *State Coll. Vic.*,
PhD *ANU*

L.M. Scotney, BSc DipEd *Qld*

N. Spencer, BAppSc, AssocDipElecEng

B.S. Tasker, BA *NE*

E.M. Walker, BSc(Hons) *Qld*, MSc *Oxf.*, AIA, AAIA

D.F. Welburn, BSc *Qld*

Principal Tutor: H.M. Gustafson, BSc(Hons) DipEd *NE*

Tutor: K.E. Lunney, BAppSc *Darling Downs*

Department of Physics

Head of Department: B.W. Thomas, MSc PhD DipEd *WA*, FAIP, MACPSEM, FAIM

Principal Lecturer: B.J. Thomas, BSc(Hons) PhD *WA*, MAIP, MACPSEM

Senior Lecturers:

J.A. Davies, BSc(Hons) *City, Lond.*, 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 *Sur.*, MAIP

R.J. Treffene, BSc *Qld*, MSc PhD *Lond.*, FASMF

T. van Doorn, BSc(Hons) PhD *Qld*, MACPSEM

Lecturers:

I.R. Cowling, BSc(Hons) PhD *Flin.*, ISES

I.R. Edmonds, MSc *Auck.*, PhD *Warw.*, MAIP, ISES

R.A. Fleming, MSc *Qld*, MAIP

M.A. Harkness, DipAppSc, DMU, GradDipBusAdmin, MIR, ASUM (ASSOC)

G.H. Johnston, AssocDipElecEng, MAppSc

M.M. Kaila, BSc(Hons), MSc(Phys), PhD(Phys), PostDoc(Phys), MAIP

P.D. Killen, BSc(Hons) PhD *Qld*

T.G. Lewis, BSc BEd *Qld*, MSc *Aston*, MSc *Griff.*, DipRMS, MAIP

W.C. Middleton, MSc BEd *Qld*, MAIP, MAAS

R.J. Norton, BSc *Qld*, MSc *Brunel*, MAIP

F. Quintarelli, BSc(Ed) BSc(Hons) PhD *Melb.*

P.A. Rowntree, DAppSc GradDipEd(Tert) *NE*, MIR

J.D. Veitch, BAarts (Ed) *Macq.*, CertRadiography, MIR
C.F. Wong, DipSc *HK*, MSc *McGill*, PhD *Sask.*, MARPS, MAAPT
Technologist: N.A. Raftery, BSc(Hons) BA *Qld*
Laboratory Manager: R. Jeffery, SMIREE DipMan
Senior Technicians:
J.A. Jull
G.W. Kibbey
M.K. Power

VISUAL AND PERFORMING ARTS

School of the Arts, Kelvin Grove campus

Head of School: P.D. Lavery (Acting), BA DipEd *Qld*, DipD *Brist.*, MLitt *NE*
Curator of QUT Art Collection: S. Rainbird BA (VisArts) *Hobart*

Department of Art

Head of Department: J.A. Airo-Farulla, BA *Kala.*, MA PhD *Wash.*
Senior Lecturer: B.J. Dean, NDD ATD *Birm.*
Lecturers:
J.M.J. Armstrong
T.C. Carr, ADArt BA *QCA* DipT *Kelvin Grove*, DPE *Qld*
A.E. Cassidy, CertAppA DFA *QCA*
G.C. Coomber
A.J. Dwyer, BEd *Qld*
E.A. Edwards-Kalwij, BFA *Ohio*, MFA *Georgia*
S. Frost, CertT *Mt Gravatt*, ADArt *QCA*, Dip *AFTS*, BA *Qld*
H. Fuller
W.J. Palmer, CertAppA DFA *QCA*
E. Ruinard, BA(Hons) *Qld* MA(Hons) *Paris*

Department of Dance

Head of Department: S.P. Street, DipDance *Ballet Vic.*
Lecturers:
K.E. Bell, BA *Qld*, CertT *Mt Gravatt*, MA (Dance) *Sur.*
S.C. Boughen, BA(Hons) *Dance Lond.*
G.J. Collins, RAD
J. Donald, BA(Dance) *QUT*, AD CommRec *Nth Bris.*
A.A. Geeves, BA DipTch *Stockholm*, MA *New York*, DTR
J. Tally, BFA(Modern Dance) *Utah*

Department of Drama

Head of Department: R.C. Wissler (Acting), BA(Hons) PhD *Qld*
Lecturers:
D.G. Batchelor, BA(Hons) *Qld*
D.M. Eden
J. Hamilton-Lavery, DipT BEd *Kelvin Grove*
B.C. Haseman, DipT *Kelvin Grove*, BA *Qld*, AdvDepS and D *Lond.*, ASDA,
LSDA, ATCL, LTCL, FTCL
C. Hoepper, BA DipEd *Qld*
D.K. McCrudden, DipStageProd *NIDA*

J. McLean Grant, BA *Qld*, DipT *Kelvin Grove* LSDA
M.L. Radvan, BA(Hons) DipEd *Syd.*, DipDirecting *NIDA*
I. Thomson, BA *Qld*, DipActing *RADA Lond.*, LTCL

Department of Music

Head of Department: A.A. Thomas, BMus BEd MMus *Melb.*, MACE

Principal Lecturer: M.S. Collins, BA(HonsMus) MA *Durh.*, PGradCertEd *Lond.*,
PhD *Leeds*

Lecturers:

M.A. Debski, BMus *Yale*, MA *Hunter*, MM *NY*

S.H. Forster, BM MM *Miss.*, MM *Indiana*

C. McCreath, BA AEd *Qld*, DalcrozeSCert *Syd.*, AMusA, ATCL, AAIM

B.A. Vergara, MMus *Melb.*

M.R. Whelan, ADPA *Kelvin Grove*

G.Y.K. Yuen, DSCM *Syd.*, Cert. Vienna Academy *Vienna*, MchM MRE *Louisville*

RESEARCH CENTRES

Aboriginal and Torres Strait Islander (ATSI) Centre

The Aboriginal and Torres Strait Islander Teacher Education Program was established in 1984 to meet the needs of students in the School of Education, and to respond to a growing demand by both staff and students for the provision of Aboriginal and Torres Strait Islander perspectives across all curricula. The Program in the School of Teacher Education became an informal Centre of Interest and Excellence: The Aboriginal and Torres Strait Islander (ATSI) Centre.

A major aim of the Centre is to develop and improve the participation and successful outcomes for Aboriginal and Torres Strait Islander students.

The Centre which is situated on the Kelvin Grove campus provides teaching and research services, as well as academic and welfare support to all Aboriginal and Torres Strait Islander students in QUT. There is also a senior tutor and administrative assistant situated on the Carseldine and Gardens Point campuses.

In 1990 the Centre responded to increased demand for entrance to a diversity of courses across the Schools and campuses; and Aboriginal and Torres Strait Islander students gained entry into a wide range of courses including the Diploma of Education – Primary, Bachelor of Social Science, Associate Diploma of Business – Court and Parliamentary Reporting, Bachelor of Business (KP), Bachelor of Education (Secondary), and the Bachelor of Arts (Drama, Music and Visual Arts).

The Centre also fulfils a research, advisory and consultancy function for tertiary researchers, government departments, and community and Aboriginal and Torres Strait Islander organisations in order to promote Aboriginal Studies and Torres Strait Islander Studies as academic disciplines.

The Centre provides staff development opportunities in the field of cross-cultural communication and conducts courses, conferences and seminars relevant to the development of Aboriginal Studies and Torres Strait Islander Studies.

Staff in the Centre assist in teaching mainstream courses across QUT.

Coordinator: W.E. Brady, BA(Hons) Syd.

Australian Key Centre in Land Information Studies (AKCLIS)

The Australian Key Centre in Land Information Studies was established in 1985 and has as its aim:

- to establish and maintain a world recognised Centre of Excellence dealing with geographic information (in its broadest sense) which is of academic and commercial significance to Australia.

AKCLIS is unique in that its Founding Members are Queensland University of Technology, the Queensland Government's Department of Lands and the University of Queensland – a model for cooperative research.

AKCLIS has a mission to support and foster research, formal education and training in the land information industry; support industry in developing new markets for Australia and abroad; transfer and diffuse technology throughout the industry; and seek funding for research and training programs.

Eighteen research projects have been selected for funding during 1990, ranging from an underwater geographic information system to mathematical analysis of data compression models to maximise computer processing. Several key areas of emergent technology provide a focus of the Centre's research interest:

- ☐ Geographic Information Systems
- ☐ Global Positioning Systems
- ☐ Remote Sensing.

During the 1989-90 financial year, AKCLIS delivered, participated or coordinated training programs totalling more than six work-years for local, interstate and international trainees. In addition, the Centre played a key role in two major seminars – one in conjunction with local authorities on Innovations in Land Information Systems, and the other, the Asian Pacific Regional Conference on Land Management and Land Use Planning cohosted by Sunmap, which attracted 28 delegates from 19 countries sponsored by the Asian Development Bank and AIDAB.

In an innovative advance in teaching Remote Sensing, AKCLIS researchers developed a Computer Aided Learning package for use in senior high schools, undergraduate training in universities and continuing professional education. The program has won recognition and awards from the Australian Institute of Cartographers and the Australian Society for Educational Technology and is being marketed internationally.

AKCLIS also plays a role overseas and was recognised as a Centre of Excellence in Land Information Studies by the prestigious Institute for Land Information based in Washington DC. The Centre provides training for the five-year Natural Resources Management and Development Program in the Philippines which is funded by AIDAB. In addition, training in Remote Sensing has been conducted in the Pacific and the Centre has a postgraduate exchange program with the University of Wuhan, the leading university for surveying in China.

More than sixty learned papers were presented in 1989 by AKCLIS researchers at conferences, seminars and workshops both in Australia and overseas.

Director: Scott Johnston, BBus (Man)MSc C. of T.

Bar Practice Centre

The Bar Practice Centre located at the Kedron Park Campus was established in 1983. It is a joint venture between the Bar Association of Queensland and the University within the administrative structure of the School of Business. It is subject to a Management Committee consisting of three members appointed by the Bar Association, three members appointed by the University and a Chief Executive Officer, designated the Warden, who is a member of both the Bar Association and the academic staff of the School of Business.

The objectives of the Centre are:

- ☐ to develop and enhance the practice skills of candidates for admission to the Bar of the Supreme Court of Queensland
- ☐ to act as a focus for the continuing education of Barristers in the Supreme Court of Queensland

- to concern itself with training and standards directed towards the achievement of the highest possible levels of competence and professional integrity in the members of the Bar of the Supreme Court of Queensland.

Lectures and practice presentations are substantially effected by members of the judiciary, the magistracy and the senior Bar and are directed towards practice and applications. All students have qualified in the knowledge subjects of the law.

The primary activity of the Centre is a 15-week course presented to students (readers) who have qualified in law from universities or the Bar Board, and who wish to practise as Barristers.

The courtroom at Kedron Park, which is a reconstruction of the old Industrial Court in the State Buildings adjoining Anzac Square, is a valuable resource for the work and training of the Centre.

Warden: M. Hocken, BA *Capricornia*, LLB *QIT*, Barrister at Law

Business Research Centre

The Business Research Centre was established in 1977 with foundation staff in the School of Business. Its objectives included:

- to undertake applied business research of benefit to the community
- to develop and promote the application of economics and statistical techniques to business and government
- to undertake consultancies on a wide range of topics that impact on the national and local Queensland economies.

Its major functions are to liaise with the business community, comment on recent economic events and predict future developments in the Queensland economy. It produces a number of publications to do this, viz:

- *Queensland economic forecast* – a biannual publication appearing in March and September of each year, updating and predicting future economic developments over the forthcoming six months
- Research reports – academic research papers, both theoretical and applied, designed to advance knowledge in the fields of economics, marketing, econometrics and management
- Monographs – an irregular series of complete research or consultancy reports
- Discussion papers – publications covering current issues of general interest to the business community.

The Centre has conducted a number of audio teleconferences, linking prominent academics and businessmen in the United States with audiences in Australia. Professor Paul Samuelson, David Hale and Lester Thurow have been but a few of the eminent contributors to these events. The Centre also initiated and participated in the education role of Queensland's bid for the Multi Function Polis.

Periodic conferences and seminars are also hosted and sponsored by the Centre.

Director: P.A. Cassidy, QDA *QAC*, MAgSc PhD *Qld*, FAMI, MESA

Centre for Analytical Science

The Centre for Analytical Science seeks to promote studies in analytical science for the benefit of the University, industry and the community at large.

The expansion and broadening of analytical chemistry in recent years has resulted in widespread recognition of the new discipline of analytical science. This is concerned with the conversion of physical and chemical variables into measurable form, and with the subsequent display, storage, processing and interpretation of the resulting signals. It thus encompasses not only analytical chemistry, but also the design, development and applications of analytical instrumentation, the use of microprocessor technology, together with aspects of automation and control.

The specific objectives of the Centre are:

- ☐ to encourage fundamental studies in modern analytical science and its application to the needs of Australian industry
- ☐ to encourage research in the design, development and application of new and existing techniques for analytical science
- ☐ to encourage postgraduate studies in all aspects of analytical science
- ☐ to provide an expert service for the consulting, research and development needs of the community and to encourage the active participation of industry in these activities
- ☐ to provide a professional analytical and testing service, particularly in areas of recognised staff expertise.

Some of the research activities of the Centre are:

- ☐ development of new and improved types of optical spectrometer
- ☐ use of various novel methods of sample introduction for atomic spectrometry
- ☐ structural analysis of novel inorganic solids using X-ray diffraction
- ☐ materials degradation research, including projects in textile degradation, corrosion monitoring in the sugar industry and inhibition of power station waters
- ☐ use of FTIR and FT Raman spectroscopy for chemical and structural analysis of material of practical significance such as textile fibres, concrete, oil refinery products and coal
- ☐ development of various chemometric techniques, including spectral reconstruction, spectral enhancement and multivariate analysis applied to pattern recognition in spectroscopy
- ☐ adaptation of electrochemical analysis to unusual analyses.

In addition to its research activities, the Centre services the wider community through testing, consultancy and continuing education in a range of areas related to analytical science.

Director: P.S. Hallman MSc PhD Syd., CChem, ARACI

Centre for Applied Studies in Early Childhood Development, Education and Services (CASEC)

The Centre for Applied Studies in Early Childhood Development, Education and Services is located in the School of Early Childhood Studies. It was established early in 1988 to provide leadership in the field of early childhood development, education and services and to provide a research and consultancy base for staff and others interested in early childhood studies.

Research and teaching interests of the staff in the School of Early Childhood Studies include the following:

- ☐ aspects of development – social and emotional, motor and physical – in areas of cognition and language
- ☐ aesthetics and creativity in children
- ☐ parent-teacher-child interactions
- ☐ early childhood curriculum issues such as teaching strategies
- ☐ program development and evaluation in areas of science, mathematics, literacy and the arts
- ☐ child care and after-school hours care.

General areas of interest include quantitative and qualitative research methods in early childhood, and playground and environment design.

CASEC organises consultancies, professional development and preparation of relevant materials for professionals and others interested in early childhood studies. It also provides lecturers and organises seminars and workshops for other institutions, industry, community groups and individuals in the field of early childhood studies. It operates a series of educational programs for children under the age of three years and their parents. Current research projects within the School include computers in the early primary years; mathematics learning and teaching; infant cognition; parent-caregiver-child interactions; teacher education; and early special education.

Acting Coordinator: Gillian Boulton-Lewis, CertT NSW, BA PhD Qld, MED Canb., FACE

Centre for Biological Population Management

The Centre for Biological Population Management was established to provide a focus for research and education in population management. Initial activity was strongly directed to vertebrate pest management and this area remains the major strength of the Centre, but this focus has been expanded to include bioculture, specifically plant tissue culture and aquaculture.

The goal of the Centre is to provide practical solutions to problems in population management by:

- ☐ developing cost-effective and environmentally sound management strategies for important species

- developing new economic resources through the application of biotechnology to bioculture
- offering international standard training and education in population biology and management.

The academic and research staff of the Centre span two faculties, ensuring a broad skills base and a multidisciplinary approach to complex research problems.

The Centre has established a significant national research profile in its three general research areas of vertebrate pest management, plant tissue culture and aquaculture. Strong research links with federal and state research authorities and private sector research organisations ensure that the Centre remains at the forefront of national research in these areas.

An international research profile has been developed through collaborative projects with universities in the USA, Mexico, Singapore and Germany and strong links with international research organisations as diverse as the Denver Wildlife Research Centre, South China Institute of Botany, International Rice Research Institute and international agencies such as FAO and USAID. These international links provide opportunities for staff exchange and collaborative research. The Centre is actively involved in research projects in Africa, South America, USA and Europe.

Activities within the Centre include:

Management Strategies Program

- Integrated pest management strategies
- Conservation management strategies
- Management of captive populations
- Water quality and wastewater management technology

Biotechnology Application Program

- Technologies for the production of economically important species and species products
- New plant varieties of economic importance
- New plant propagative techniques

Education and Training Program

- Honours and postgraduate programs
- Integration of research with undergraduate programs
- Overseas students
- Bursaries and fellowships
- Continuing education programs.

Acting Director: J. Wilson, MAppSc *QIT*, CBiol, MIBol, MAIBiol

Centre for Commercial and Property Law

The Centre for Commercial and Property Law was inaugurated in the Faculty of Law in January 1990 to pursue the following objectives:

- to marshal resources required for teaching, research and consultancy in areas of academic concentration where Faculty achievement is already impressive
- to create a stronger focus for external funding and advertisement of Faculty activities within the legal profession and other allied professions
- to provide an umbrella under which individual researchers may operate and optimise their performance
- to identify the Faculty publicly as a resource centre in two rapidly expanding, highly complex and interlocking areas of legal practice, to assist in the Faculty's interaction with the profession
- to act as an agent in the Faculty's Professional Legal Seminar program and future publishing initiative in these areas
- to facilitate the ability of members to consult to government and the profession.

In fulfilment of these objectives for 1990, the Centre has commissioned a book of essays, *Contemporary Problems in Commercial and Property Law*, and has received funding from the Queensland Law Society Grants Committee to cover the cost of publication and marketing. During 1990, the Centre's first major publication, *Real and Personal Securities* by Professor W.D. Duncan and L. Willmott, was released and further books by members are underway.

The Centre hosted several successful seminars and workshops during 1990 on a diverse range of subjects such as foreign investment, retail shop leases, the standard land contract and capital gains tax.

The Centre also hosts visiting distinguished scholars and practitioners. During 1990, Adjunct Professor A.W. Lee, a specialist in Trusts Law, visited the Faculty for most of the second semester and contributed significantly to both the undergraduate and postgraduate courses. The Queensland Law Society Grants Committee has approved funding on an annual basis for the appointment of a Law Society Fellow, being a distinguished lawyer, to be attached to the Centre in a teaching and research role.

The Centre is becoming recognised within the wider legal profession and is receiving growing support both in attendance at seminars conducted by the Centre and in other ways. Two large Brisbane legal firms pledged financial support to enable the creation and maintenance of two Chairs in Commercial Law and Property Law respectively. In May 1990, Professor C.D. Gilbert was appointed to the Henderson Trout Chair in Commercial Law and Professor W.D. Duncan was appointed to the Feez Ruthning Chair in Property Law. Both positions are initially for a renewable period of five years.

Membership of the Centre is drawn from full-time staff in the Law Faculty with particular teaching and research interests in these fields.

Director: Professor W.D. Duncan, LLB Qld, LLM Lond., Solicitor

Centre for Eye Research

The Centre for Eye Research was established in the Department of Optometry in 1986 to coordinate the wide range of research activities in the visual and ophthalmic sciences.

The Centre has a vigorous program of research investigating human vision and how the problems people have with vision may be resolved or alleviated.

In 1988 the Centre was given University Centre status and provided with support funding to pursue its mission of developing the research and postgraduate activities of the Department of Optometry. In 1989, the Centre's first PhD students were enrolled.

The research activities of the Centre encompass the clinical, theoretical and applied aspects of the visual sciences. There is an emphasis on the functional and performance aspects of vision of the aged and partially sighted. The Centre also undertakes research for the ophthalmic and pharmaceutical industry towards the development of improved ophthalmic appliances and materials. In addition to investigating the causes of human vision problems, the Centre also undertakes research work for government, industry and business to resolve visual problems in the workplace, in transport and in industry.

The Centre for Eye Research serves as a focus for collaboration with groups internal and external to QUT. This collaboration with industry and with other research units is well established, and the Centre has attracted significant research grants from industry and government funding agencies.

The facilities and resources of the Centre are unique within Queensland and provide a resource for the development of the visual and ophthalmic sciences and industries in the State.

Director: Professor K.J. Bowman, MScOptom *Melb.*, FAAO

Centre for Human Nutrition Research

The Centre for Human Nutrition Research was established late in 1989 and currently there are three well-established research areas within the Centre:

- ☐ food contamination and trace element analysis of foods
- ☐ workplace/institutional nutrition
- ☐ community nutrition.

A number of consultancies relating to, for example, clinical trials of new medically relevant food products and food contaminants have also been undertaken. Short courses are provided for professional groups, for example food service management.

The Centre's research profile was founded on trace element analyses where initially funding was obtained from NHMRC and the sugar industry to investigate the nutritional status of children with phenylketonuria and to establish reliable methods for some difficult elements. Currently the trace element area is continued in work being carried out on Wheat and Dairy Industry grants to apply the data to marketing strategies. Previous research on the mechanism of ciguatera poisoning and aquaculture now has a logical extension in looking at metal contamination in fish species.

The nutrition profiles of a number of groups at risk in the community are the subject of several funded research projects, for example a nutrition program for preschoolers, autistic children, and Meals on Wheels recipients. This avenue of research is likely to expand as a consequence of some of the current projects and diversify as a result of closer contacts with the Northern Campuses.

The highlight of 1990 for the Centre was the commencement of a large-scale project in collaboration with the State Health Department to investigate effective strategies for improving nutrition at the worksite. Instruments for use in the study are now being piloted at test sites.

There are an increasing number of postgraduate students associated with the Centre, three completing a PhD and eight a master's degree on a wide range of topics.

Seminar programs on nutrition-related topics are organised by the Centre, with speakers from overseas where possible.

Director: Professor C. Reilly, BPhil *Gregorian Faculty Tullamore*, BSc PhD *University College Dublin*, HDipEd *Clongowes Wood College*

Centre for Medical and Health Physics

The Centre for Medical and Health Physics was established in 1988 to provide a more formalised focus, and vehicle through which to foster the application of physics and supporting disciplines to clinical and occupational health areas in the community.

The Centre has the following functions:

- ☐ to undertake research and development in existing and anticipated problems relating to diagnosis and treatment of persons in the clinical and occupational areas
- ☐ to conduct programs aimed at educating the health industry in new technologies
- ☐ to disseminate knowledge through postgraduate studies at both master and doctoral levels in areas where the Centre is optimally placed to do so
- ☐ to facilitate the integrated and coordinated transfer of appropriate technology to the countries of South East Asia and the Pacific Basin by admitting overseas students to postgraduate studies within the Centre; arranging exchange between staff associated with the Centre and overseas scientists; encouraging the secondment of staff associated with the Centre to overseas countries to undertake sponsored applied research and consultancy; and offering specialist courses
- ☐ to develop new products in medical and health-related fields
- ☐ to improve the performance of existing medical instrumentation by participating in quality assurance and instrumentation development projects
- ☐ to encourage the active involvement of its members, industry (in its broadest sense) and the medical profession to achieve the above.

Progress during 1990 was considerable, particularly considering that nearly all funding for operation had to be generated by members acquiring research grants and consultancies.

A wide range of research and consultancy projects have been undertaken and a number of PhD students have begun their studies.

Members of the Centre have developed strong links with other educational, scientific and professional networks. The Centre supports conference attendance to enhance these links and professional development and visibility.

Education

The Centre's staff provide support for undergraduate and postgraduate studies in the following programs:

- ☐ Bachelor of Applied Science – Physics major
- ☐ Bachelor of Applied Science – Medical Radiation Technology, with majors in Medical Imaging Technology and Radiotherapy Technology

- ☐ Graduate Diploma in Applied Science, with majors in Medical Physics and Medical Ultrasound
- ☐ Master of Applied Science, with majors in Medical Physics and Medical Ultrasound
- ☐ PhD programs.

Continuing Education

The Centre offers a short course in Radiation Health Physics twice a year in which particular emphasis is given to sources and techniques most likely to be met in the gauging and processing of materials in bulk such as the mineral and coal processing industries. Where appropriate, the course has been accepted by the Statutory Authority as appropriate for training of Radiation Safety Officers.

Other courses run by the Centre when demand is deemed appropriate are:

- ☐ Principles and Practices of Noise Management
- ☐ The Management of Noise in Shops, Offices, Factories and their Environs
- ☐ Environmental Physics for Industrial Application.

Research and Consultancy

The Centre's current areas of research and development are in:

- ☐ Medical Physics (imaging science)
- ☐ Medical Physics (body composition)
- ☐ Health Physics (occupational and environmental radiations)

The Centre's major areas of consultancy are:

- ☐ measurement of radioactivity
- ☐ shielding design for radiological practices
- ☐ measurement of light transmittance/reflectance
- ☐ measurement of noise levels.

The Centre will host seminars in various areas of Medical Physics and Health Physics in the near future.

The Centre encourages and welcomes the active participation of all QUT staff, and professionals from outside the University. This year the Centre was pleased to have Dr Howell Round from the University of Waikato, New Zealand, and Dr Hans Swan from the Charles Sturt University, Riverina, visit and participate in activities for approximately six months.

Director: Associate Professor B.W. Thomas, MSc PhD DipEd WA, FAIP, MACPSEM, FAIM

Centre for Molecular Biotechnology

In 1988, the Department of Medical Laboratory Science established the Centre for Molecular Biotechnology. The Centre was designated as a University Centre in 1989 and plays an integral role in QUT's research policy and program of selective concentration of its research effort. The primary objective of the Centre for Molecular Biotechnology is to conduct research in the area of recombinant DNA and related technologies. Research leading to practical application is strongly encouraged and supported.

The principal aim of the Centre is to establish a group which is internationally recognised for the highest quality research and training in recombinant DNA technology. In 1989, the Centre commenced a program of undergraduate and postgraduate courses (MSc, PhD) which is based on both the theoretical and practical elements of molecular biotechnology. During the year, the research emphasis was reviewed and focused into three areas:

- ☐ the development of rapid recombinant DNA technology
- ☐ the development of DNA probes for plant and animal virus detection and diagnosis
- ☐ the study of Chlamydial infections.

In 1989, the staff of the Centre were awarded a total of \$258 400 in research funding and of that, \$113 000 was received in competitive grants (ARC, NHMRC).

Executive Director: Associate Professor J.S. Welch, MSc PhD Qld, MPH Syd., FAIMLS

Centre for Pacific Basin Studies

The Centre for Pacific Basin Studies was set up in late 1989 through the School of Teacher Education to research and provide scholastic and public access to information concerning Australia's integration with the Pacific Basin region, an area defined as the entire Pacific Rim littoral including North/South America; the Pacific Island nations; Australasia; South East Asia and especially the North Asian/Pacific area centred around Japan.

The purposes of the Centre are to provide a source of research, consultancy and information in the following areas related to the Pacific Basin:

- ☐ education
- ☐ future and present developments
- ☐ Australian social, economic and political restructuring
- ☐ trade, tourism, technology and leisure
- ☐ cultural, linguistic and racial/demographic challenges.

With changes in the world economy and the formation around new trading and political combinations of new blocs of nations within the American, European, Soviet and Pacific areas, the Pacific Basin political economy has emerged as the major arena affecting Australian socioeconomic and political structuring.

The Centre focuses on the political economy approach to the changing nature of the Pacific Basin economy. It stresses various development theory approaches such as World Systems Theory and is interested in the restructuring and adaptation of states and societies within the Basin.

Director: R.H. Leach, BA Qld, BLitt MSocSc(Hons) NE

Centre for Product and Process Development

The Centre for Product and Process Development is a jointly sponsored enterprise of the faculties of Built Environment and Engineering and Business of the Queensland University of Technology.

Since its inception in 1986, the Centre has provided a focus for the interaction between QUT and external partners in industry, institutions and government departments in the

development of new products and processes. With the involvement of staff, postgraduate and undergraduate students of the Schools of Management, Mechanical and Manufacturing Engineering, Electrical and Electronic Systems Engineering and Industrial Design, the Centre's efforts are concentrated on lifting the level of design quality for products and the efficiency of processes, thereby improving Australia's competitiveness in world markets.

Drawing on intellectual resources in a number of widely divergent areas of expertise, the Centre has achieved its success through an interdisciplinary and structured approach to design.

The Centre has commenced international research on the development of new materials and their application. Existing national and international contacts with other universities can be utilised to ensure the relevance of research undertaken for client-specific projects.

The education program for postgraduates and professionals – more entrepreneurial and practice-oriented – is another aspect of the Centre's activities. This will assist them in adapting to the rapidly changing environment and open up more avenues to pursue their professional goals, while building the most important resource of an enterprise, intellectual property. It is intended to broaden this area and further encourage publishing activity.

The Centre has secured a number of consultancies and research and development projects in the various areas. These include the development of the CNC Punchpress, the Automated Tapestry Machine, computer graphics interface for fire alarm systems, and the Brisbane City bus shelter design.

The Centre is an intermediary for organisations, providing access to the interdisciplinary teams and helping them use the results of research conducted for commercial benefit.

Director: W.W. Kohler, ME(Mech), MA(Design), FIE Aust

Centre for Research and Learning in Mathematics

The Centre for Research and Learning in Mathematics was established in 1987. Its mission is to improve the teaching/learning of mathematics at all levels of education. As such, the Centre performs the following functions:

Teaching

- ☐ designing and conducting higher degree award courses in mathematics education (master and doctoral level)
- ☐ developing and publishing texts on mathematics education, including diagnostic instruments

Research

- ☐ conducting research in mathematics and science education
- ☐ publishing reports on the findings of this research
- ☐ publishing a monograph series on studies completed by staff and higher-degree students

Service

- ☐ providing diagnostic and remediation services for students with learning difficulties in mathematics
- ☐ providing enrichment activities for students gifted in the mathematics and sciences
- ☐ conducting non-award courses and seminars in mathematics education
- ☐ providing consultation services for schools, business, industry, and TAFE.

Since the early 1980s the Centre has been operating a specialist Master of Education degree in Mathematics, comprising coursework and a thesis. From mid-1990, the Centre has accepted PhD students specialising in mathematics and science education.

The quality of the services provided by the Centre is enriched by staff members' active involvement in research. Current research projects focus on the following topics:

- ☐ children's acquisition of competence in novel problem solving
- ☐ the development of children's logical reasoning skills
- ☐ the interrelation between children's spatial ability, their mode of processing, and their syllogistic problem-solving skills
- ☐ the strategies and techniques of effective instruction
- ☐ the impact of social and cultural factors on the teaching/learning of mathematics.

As part of its service to schools and the community, the Centre employs third-year Diploma of Education students as tutors for children experiencing difficulties in mathematics. The Centre also conducts specialist courses in diagnosis and remediation for primary and secondary teachers as well as those from TAFE colleges. Many of these teachers are subsequently employed by the Centre to undertake in-depth diagnoses of children with particular learning problems in mathematics.

At the other end of the learning spectrum are the enrichment courses conducted for children with special abilities in mathematics, science, or philosophy. Each semester, the Centre conducts activity days for these children, as well as fortnightly after-school workshops on philosophical thinking.

Many of the Centre staff possess expertise in the development of mathematics curriculum materials. This enables the Centre to provide teachers with a range of in-service workshops, seminars and short courses on the teaching/learning of mathematics. Staff members with computing expertise conduct highly popular workshops for personnel from business, industry, and education.

Director: L.D. English, DipT Kelvin Grove, BEd MEd PhD Qld

Centre for Sedimentary and Environmental Geology (CSEG)

The Centre for Sedimentary and Environmental Geology was established in 1988 with the following aims:

- ☐ to pursue excellence in the application of geoscientific and environmental knowledge to rational assessment and development of economic resources
- ☐ to promote effective ways of obtaining and transforming geoscientific knowledge within the community.

The Centre has been highly successful in undertaking a significant number of research and development activities and generating a host of new geoscientific programs relevant to its concentration areas. Currently, the main areas of concentration are:

- ☐ assessment of industrial mineral resources
- ☐ environmental/engineering geology and geochemistry
- ☐ sedimentology and biostratigraphy.

During 1990, 12 postgraduate students (four honours, six master and two doctoral candidates) and one postdoctoral research fellow were associated with the Centre. Six sabbatical scholars and several short-term visitors from around the world participated in the Centre's activities. These visitors play a major role in furthering the research objectives and contributing to the Centre's regular seminar program. The Centre's quarterly newsletter is recognised as an important geoscientific information source in areas of industrial minerals and environmental geology.

The Centre has been particularly successful in attracting research grants from external and internal competitive funding sources; running seminar and workshop programs, attended by many members of scientific/professional community; establishing a network of Associates of the Centre, from academic and professional institutions in Australia and overseas; and publishing and disseminating referred scientific articles and conference proceedings.

The Centre also offers a wide range of consulting, technical and educational services, including:

- ☐ sedimentation studies related to resource assessment and environmental impact statements
- ☐ geotechnical investigations for coastal urban and industrial development
- ☐ petrochemical analysis of geological material, environmental geochemistry, and advice on sampling/analysis techniques
- ☐ specialised geologic and environmental training programs, for professional development and community awareness.

Director: A.V. Arakel, BSc Shiraz, PhD WA

Centre for Urban and Regional Development

The Centre for Urban and Regional Development was established in 1990. It is located within the Faculty of Built Environment and Engineering and integrates research activities in:

- ☐ urban and regional planning
- ☐ landscape architecture, including landscape and natural resource use planning
- ☐ architecture
- ☐ construction management
- ☐ urban design
- ☐ industrial design
- ☐ interior design.

However, within these broad parameters the centre focuses its research efforts on multidisciplinary work related to:

- ☐ inner city social and physical change
- ☐ river catchment and coastal management
- ☐ housing issues
- ☐ rural land use and conservation
- ☐ urban design
- ☐ environmental and conservation planning
- ☐ environmental cognition/perception, including use of expert systems.

The Centre has a small core of academic staff, with the ability to call on the professional and academic expertise of the wider staff profile in the Faculty of Built Environment and Engineering.

In addition to running short specialist courses the Centre offers research and research-based consultancy in its main areas of interest. It has been involved in research for improving medium-density housing in South East Queensland; has assisted in a course for housing program development in developing countries; has assisted in a report to the Federal Government on regional and urban policies in OECD countries; provided a report on population-based indicators of needs for local authorities; and has a PhD student developing a computer-based expert system for project management. Centre staff and faculties are also utilised in Faculty teaching.

The Centre is gradually expanding its activities through government and privately funded research, Faculty publications, and specific short courses.

Director: J.R. Minnery, BSc(Hons), PCE, DipTP, PhD, MPubAdmin

Communication Centre

The Communication Centre was set up in 1986 to generate knowledge in a range of communication-related activities, and to transfer this knowledge to professional practitioners, the communication industries and the community by undertaking research for the public and private sectors.

The Centre develops the School of Communication's research program and integrates it with the teaching program. Research is funded by grants from both government and business and concentrates on the study of human communication in corporate, social and cultural networks. Within this area, research interests include:

- ☐ communication policy and planning
- ☐ management of communication
- ☐ information flows in communication networks
- ☐ electronic imaging systems
- ☐ communication as planning and organising
- ☐ communication practice – advertising, journalism, organisational communication, public affairs/public relations
- ☐ textual analysis
- ☐ media studies

- ☐ cultural communication
- ☐ social communication
- ☐ environmental communication.

Research projects in progress in 1990 included a project to facilitate the development of an accident prevention strategy and its implementation as a community intervention; a study to develop a communication network model for analysing the adoption of land conservation practices in North Queensland; a study to assess the current environment and future trends in the public relations profession; and a survey of institutions teaching communication studies in Australia.

The Centre has established the Australian Communication Management Program to develop postgraduate teaching and applied research in communication management, policy and planning. It also assisted with the establishment of the fundraising strand within the Graduate Diploma in Communication Practice.

The Centre runs a seminar program for students and business, which brings interstate lecturers from the advertising industry to Brisbane. The program is funded by the Advertising Federation of Australia.

Director: Associate Professor H.A. Stevenson, MA *Hawaii*, FPRIA, APR

Information Security Research Centre (ISRC)

The Information Security Research Centre was formed in July 1988 as a joint venture between industry and the Faculty of Information Technology at the Queensland University of Technology.

The focus of the ISRC activities is the control, management and security of computer systems and networks. The role of the Centre is to undertake research, development, consultancy and education activities in this designated area.

The Centre has six research groups and research is concentrated in the following areas:

- ☐ cryptology
- ☐ risk analysis and assessment
- ☐ security in electronic data interchange and open systems interconnection
- ☐ database security
- ☐ access control and secure operating systems
- ☐ computer viruses.

Since its commencement the Centre has carried out applied research and consultancy for a wide range of organisations concerned with information security, both government and commercial. In addition the ISRC has developed its educational role by offering research master and PhD programs as well as teaching specialist subjects for postgraduate coursework students.

Director: Professor W. Caelli, BSc(Hons) *N'cle*, PhD *ANU*, FACS, MIEEE, MACM

Institute of Applied Linguistics

The Institute of Applied Linguistics was established in 1987. Its major functions are:

- ☐ to develop non-award English language courses

- ☐ to engage in consultancy and research related to applied linguistics and TESOL
- ☐ to conduct non-award courses in the field of applied linguistics and TESOL
- ☐ to offer award programs in applied linguistics and TESOL
- ☐ to meet the English language needs of overseas trained professionals through ESL and EAP (English for Academic Purposes) programs
- ☐ to offer Foundation Year courses which provide overseas students with the academic bridge to tertiary level studies in Australia.

The Institute is primarily a conduit for overseas students to this University's undergraduate and graduate programs. Many students who complete the ELICOS (English Language Intensive Courses for Overseas Students) and Foundation Year programs pursue formal award courses offered by this University; some go to other tertiary institutions in Australia. The University provides on-going English language support to overseas students who need assistance.

In addition to ELICOS and Foundation programs, the Institute has been awarded a three-year contract as a tertiary provider of English language programs. The Department of Immigration, Local Government and Ethnic Affairs (DILGEA) sponsors these programs for immigrants with overseas tertiary qualifications or for overseas trained professionals who wish to undertake further studies in Australia.

Staff at the Institute have particular expertise in the area of language proficiency testing. Two members of staff have international reputations in language testing, having worked on the development of the Australian Second Language Proficiency Ratings (ASLPR) and the International English Language Testing Service (IELTS). Staff have also offered courses to language test designers from New Zealand, Japan, Kenya and Hong Kong, and from all ASEAN countries.

The staff at the Institute have secured international consultancies in applied linguistics and TESOL. The Director has developed project documents for UNESCO projects in Afghanistan, Mongolia and China. The project in China will greatly influence the training of ESL teachers in four provinces of Southwest China and more importantly, the project may eventually effect the teaching of English to as many as seven million secondary school students. IAL staff have had TESOL consultancies in Indonesia, the Philippines, Thailand, the Maldives, Australia, Britain and the United States of America.

Research interests within the Institute include:

- ☐ language testing
- ☐ language learning styles
- ☐ language teaching methodology
- ☐ syllabus design and evaluation
- ☐ language policy and planning
- ☐ English for specific purposes.

Director: E.V. Burke, CertT Asopa, MA Lanc., Dip TOEFL Trinity College, Lond., PhD Michigan SU

Key Centre in Strategic Management

The Key Centre in Strategic Management was established by federal grant in June 1989 with the mission of developing teaching, research and consultancy in the field of

management education. The Centre is located within the School of Management in the Business Faculty and coordinates participation from QUT's faculties of Built Environment and Engineering and Science, and from experts at University of Newcastle and Bond University. The Centre also has links with the Queensland TAFE sector, with the brief of helping to develop management education at that level, and with the Queensland Quality Centre for its quality management focus.

Within the broad field of strategic management particular attention is given to the areas of Quality Management and Human Resource Management and their interface. The Centre's work is led by two Professors, one in Human Resource Management and Labour Relations and the other in Quality Management. The Chair in Quality Management is the first of its type within Australia and is funded by the Queensland Government.

The Key Centre has research units that conduct research and consultancy in the areas of Quality Management, Human Resource Management and Labour Relations, Tourism, Business and Government, Small Business and Women in Management. It has projects funded by DEET's Reserve Fund, the Australian Research Council, Queensland Government departments and private companies. The Centre disseminates information through a seminar series, through conferences, a working paper series, an edited book series and a business journal, *QBIZ*. As the Key Centre develops, new teaching initiatives will be launched to develop QUT's capacity and range of courses in management education.

Director: Professor G.P. Palmer, BSc Birm., MSc Lond., PhD City, UK

Leadership Centre

The Leadership Centre, which is located at the Kelvin Grove campus, was established in May 1989 in consultation with education and community authorities and groups. The Centre's overall aim is to provide a service to leaders at all levels within schools, communities, institutions and systems. A close working relationship has been established with the Key Centre in Strategic Management at the Gardens Point campus.

The objectives of the Centre are:

- ☐ to conduct applied research as part of an ongoing process to improve practice
- ☐ to write case studies of exemplary leadership practices
- ☐ to study contemporary research in leadership which encourages empowerment, improved quality of working lives and performance
- ☐ to offer professional development courses and consultancy to leaders in education, business, commerce and industry
- ☐ to provide material and media resources.

Staff associated with the Centre have conducted research in the schooling and higher education sectors. The emphasis is on leadership and management practices at all levels in institutions. Reviews and case studies of practices have enabled clients to monitor and plan future actions.

Professional development and consultancy services are closely related to the Centre's research. The Centre has conducted courses in leadership for senior administrators in primary, secondary and special schools for several years. Plans are being formulated to continue and expand these courses to all levels within institutions. Accreditation for courses is being considered. Consultants have been engaged by schools, regions and the central office of the State Education Department to advise on leadership issues and to

conduct seminars and workshops. A series of activities in the area of Women and Management has been undertaken and a course is to be offered this year.

A seminar series is conducted each year on a theme relevant to leadership. In 1990 the theme was 'Restructuring Education Systems: A Challenge for Leaders.'

Publications on issues, for example, *Participatory Decision Making* and *The Dilemma of Women in Management*, are available. Research interests within the Centre include:

- ☐ leadership and management practices
- ☐ decision making
- ☐ leadership policies and planning
- ☐ women and management
- ☐ management reviews.

The Centre, with other Centres and Units whose focuses are on leadership and management, has recently established a National Network of Centres. The purpose of the Network is to share visiting scholars and material resources.

Coordinator: B.J. Evans, BA *Toronto*, DipEd *La T.*, MEd *Qld*

Physical Infrastructure Centre

The Physical Infrastructure Centre coordinates, directs and supports the School of Civil Engineering's research and the associated consulting and continuing education activities related to the physical infrastructure. The Centre works with industry and government to identify and carry out key projects which strengthen the State's physical infrastructure.

The Centre's activities concentrate on the four major civil engineering disciplines, viz:

- ☐ road and railway structures
- ☐ earthworks, pavements and materials
- ☐ transportation
- ☐ water reticulation and sewerage.

Staff involved in the Centre have delivered three invited/keynote addresses at international and national conferences, and produced 108 refereed journal and conference proceedings and 43 other publications during the last five years.

The Centre presently has eight principal researchers, three external associate researchers, 10 internal associate researchers, four PhD students and 14 MEng students and 11 in the first year of the MEngSc.

Director: Associate Professor G.H. Brameld, BE(Hons) MEngSc BCom PhD *Qld*, MIEAust, MIABSE

Queensland Mass Spectrometry Centre (QMASS)

The Queensland Mass Spectrometry Centre was set up in 1982 and is centred around a modern high resolution combined gas chromatograph mass spectrometer (gc/ms). This equipment is especially suited to the analysis and identification of organic compounds and has applications in the areas of environmental chemistry, drug monitoring, petrochemicals and pharmaceuticals. This was the first centre of this type in Australia

and it is now widely recognised for its expertise in the area of organic analysis by mass spectrometry.

The aims of the Centre are:

- ☐ to provide a consulting service to local industry in the solution of industrial problems
- ☐ to engage in and promote research in the field of mass spectrometry.

The Centre undertakes both research and consulting activities in areas in which problems can be solved by mass spectrometry. It has facilities to perform pyrolysis mass spectrometry and headspace sampling as well as all the conventional mass spectrometry and gc/ms procedures. It provides a specialist analytical service to a range of industries including the food, petroleum, pharmaceutical and construction industries. Special areas of expertise include the analysis of flavours and volatile pollutants in the air and water, analysis of plastics, polymers and solvents and the analysis of pesticides.

The Centre has an active research program of its own as well as supporting a number of research programs in the general area of organic chemistry.

The research interests of the Centre include:

- ☐ fundamental studies in the behaviour of organic compounds in mass spectrometry
- ☐ the analysis of volatile flavours in foodstuffs by headspace concentration
- ☐ analysis of polymers and plastics by pyrolysis gc/ms.

Director: J.P. Barley MSc(Hons), PhD Auck., MRSC, AIFST

Terotechnology Centre

Terotechnology is a combination of management and technology and can be applied by both users and manufacturers in industry.

It is concerned with the specification and design for reliability and maintainability of plant, machinery and equipment; with their installation, commissioning, maintenance, modification and replacements; and with feedback of information on design, performance and costs.

Terotechnology requires no new disciplines, but is essentially a new way of examining and grouping some familiar activities, 'bringing together' well-tried methods to improve the management of physical assets.

To address some of the problems in this area, the School of Mechanical and Manufacturing Engineering has established a Terotechnology Centre based on heavy industries. Its objective is:

- ☐ to make the expertise of the Terotechnology Centre and QUT available to member firms and industry in general through formal contact.

The Centre will concentrate initially on industry in such areas as lubrication, wear and maintenance engineering.

The Centre has been established with financial support from industrial organisations who also are represented on the Centre's Management Committee.

Other funds are self generated from testing and consulting services and the provision of specialist services such as short courses, in-house training schemes and professional renewal courses on a wide range of related topics.

The Centre has experience in:

- ☐ review of plant maintenance practice to identify potential savings
- ☐ the selection of optimum materials and lubricants
- ☐ exploitation of new materials and processes
- ☐ systematic fault diagnosis
- ☐ failure analysis
- ☐ design and construction of special testing equipment to clients' requirements
- ☐ R&D by a team of highly qualified and experienced engineers
- ☐ preparation and implementation of quality systems audit and calibration services
- ☐ provision of courses and instruction tailored to clients' requirements.

Director: Associate Professor W. Scott, MSc PhD *Leeds*, CEng, MIMechE, MSTLE

ACADEMIC SERVICES

Computing Services

At the time of writing, computing and information technology related services are offered to staff and students within the University by two Computing Services Departments: one at Gardens Point and the other primarily located at Kedron Park but serving all Northern Campuses. Integration of these departments and services is expected to be complete by 1991; thus the following list of services and facilities is set out in an integrated format even though certain differences in operation are presently apparent.

As well as providing access to facilities such as timesharing computers, computer laboratories and communications networks, the Computing Services Departments provide services such as consultation and assistance with use of many University computing facilities, telephone hotlines for problem resolution, and facilities and services to support teaching, research and administration of the University.

Computing facilities

Computing Services Departments manage the timesharing computing equipment located in the Kedron Park and Gardens Point computer rooms. Currently available computers are:

REDGUM	Digital VAX 6430
WATTLE	Digital VAX 8550
	(REDGUM and WATTLE form a VAX cluster which is used for both administrative and academic computing.)
ADMIN	Hewlett-Packard 3000 Series 950 used for administrative information systems
SEQL	MD9000 Performance Enhanced Sequel (PES) dedicated to servicing URICA, the library automation system used by the Northern Campuses
DECsystem-10	Provides a substantial proportion of administrative computing for Gardens Point campus
SESAME	CONVEX C210 Mini Supercomputer; a powerful vector processing machine used for research and postgraduate studies
DG MV15000	A Data General processor used for the Gardens Point library circulation and on-line catalogue system
STAR	Hewlett-Packard 9000 Series 825 used for academic computing.

In addition there are some 2000 personal computers located throughout the University campuses. Many of these act as stand-alone devices, but hundreds are also connected to internal local area or wide area networks.

Campus computer centres

Major computer rooms at Kedron Park and Gardens Point campuses house the timesharing computers. These are staffed by Computer Operators.

In addition, on the Northern Campuses there are 'campus computer centres' which support the academic program based on those campuses and provide a focus for computing facilities there. These facilities include staff and student PC laboratories, along with terminals and printers connected to central timesharing computers. Commonly used computing consumable items are distributed from these centres.

Hours of availability

Timesharing computers are available 24 hours a day, 7 days a week with certain exceptions for file backup and preventive maintenance. Arrangements for computer

systems differ according to their type and usage. The Hotlines are able to provide up-to-date availability information on request and this is also accessible in on-line NEWS and log-on message services.

Computer Operators are in attendance at Kedron Park from 8.15 am until 4.30 pm Monday to Saturday and at Gardens Point from 8.00 am until 11.30 pm Monday to Friday, and 8.30 am until 5.00 pm on Saturdays and Sundays during semester and many weekends between semesters.

Most computing laboratories are available 24 hours a day, 7 days a week. At Gardens Point the V Block and L Block laboratories allow open access. At Northern Campuses access is via a combination lock.

Campus computer centres are staffed within normal working hours – 8.30 am to 4.30 pm, Monday to Friday.

Internal networks

The internal wide area network currently supports approximately 400 data terminals and around 500 personal computers which are used both as data terminals and stand-alone workstations. Terminal servers, distributed Scitec MDX data switches, and a Micom data switch allow terminals on any campus to communicate selectively with the major administrative, academic and library computer hosts at Kedron Park and Gardens Point.

The majority of buildings at Gardens Point now have the campus ethernet running to them and this ethernet has been extended to the Kedron Park campus over a high speed data communications link. High speed links also extend to Carseldine and Kelvin Grove campuses from Kedron Park.

Many Northern Campus student computing laboratories have personal computers connected in local area networks allowing access to teaching software 24 hours a day.

External networks

Access to local, national and overseas computer-based information services is provided via telecommunications links. Electronic mail and direct access to other tertiary institutions and research centres in Australia and overseas are becoming increasingly available through the Australian Academic and Research Network (AARNet).

Student computing laboratories

The Northern Campus student computing laboratories are managed by the Computer Laboratory Supervisor on each campus. Management services include timetabling, operation and maintenance of equipment, and consumables distribution. The Gardens Point V Block laboratory and classroom and the L Block laboratory are controlled by the operations staff, to whom problems are reported. Staff may also book the classroom.

The general teaching laboratories on each campus contain the following types of equipment:

Equipment	Carseldine	Kedron Park	Kelvin Grove	Gardens Point
Apple II	X		X	
IBM PC(XT) Clones	X	X	X	
IBM PC(AT) Clones	X	X	X	
Terminals - HP9000		X		
Terminals - Apollo		X		
VAXMATES				X
Terminals – all systems				X

The Gardens Point equipment may be replaced by 1991.

Staff computing laboratories

Each Northern Campus has a staff computing laboratory to give all staff access to computing facilities. They are also the location of shared expensive items such as laser printers and plotters.

Hotline help services

There are two telephone hotlines available: one at Kedron Park campus and the other at Gardens Point campus. These provide University-wide help services for supported computer hardware and software, as well as other assistance and information, for example relating to computer availability, charged services, and training courses.

Charging

In general services are offered free of charge. Consumable items (eg paper, diskettes, and printer ribbons) that are used on equipment outside computer centres or laboratories are charged to departments. Some services are charged back and these are specifically noted.

Commercial users or other tertiary institutions may access computing facilities at the University. This access is charged. The Hotlines can provide details on request.

Office automation

Office Technology Consultants at Kedron Park are available to provide consultation and advice on requirements staff may have for office automation equipment. The consultant will then arrange acquisition, testing, and installation of the equipment, as well as training and subsequent support.

Training courses

A range of training courses for key computing applications are available to University staff. Contact the Hotlines for information on availability and scheduling or refer to Computing Services publications or the University Staff Development Handbook for more details.

Equipment, software and consumables acquisition

All Northern Campuses' computing and communications equipment and most computer software and consumables are purchased through Acquisition Clerks in Computing Services at Kedron Park. At Gardens Point, both hardware and software orders are placed by the relevant department and, in most cases, approved by Computing Services.

Product evaluation

In order to provide as high a level of support, training and services as possible, a number of items of equipment and software are recommended as 'standards' following thorough evaluations of alternatives. These are then fully supported by Computing Services.

Electronic mail

An electronic mail facility and support service is available for use within the University as well as for worldwide communication.

Administrative information systems

Many of the University administrative information systems are developed and maintained within Computing Services.

Data entry and data analysis

On-line data entry and analysis services are available for the analysis of survey and other research data. Initial contact and requests for information on charging should be made through a Hotline as arrangements differ between campuses.

Telex, teletex and facsimile

Computer Operators at Kedron Park campus operate a 'Teletex' facility which provides access to worldwide telex, teletex and facsimile networks. Outgoing messages should be sent directly to the Operators there, preferably by electronic mail. At Gardens Point, these services are provided by Central Administration.

Equipment repairs

Computing Services undertakes in-house repairs of personal computers, data terminals, and related computing peripherals for the University.

Project management

Computing Services undertakes management of specific projects such as installation or replacement of computing laboratories, implementation of specialised solutions (hardware and software) for departments, and investigation of new directions and initiatives.

Consultation

Consultation services are offered across the range of computing and communications fields. These are charged services when provided for external organisations.

Further information

A wide range of publications concerning much of the University hardware, software and communications facilities are available free of charge at the counter at Gardens Point campus. In addition, Computing Services produces a quarterly newsletter designed to keep the University community in touch with many information technology issues.

University Library and Resource Centres

Students and staff of the Queensland University of Technology have access to a wide range of information, audiovisual and communication services including professional advice in these areas. Holdings of books, periodicals and other media, including equipment, have been developed in conjunction with teaching and research in the University and primarily reflect these activities. Materials are arranged on open access shelving. Access is provided via on-line catalogues available within the buildings, via campus networks, and on a dial-in basis for persons with modems.

Locations

Libraries/Resource Centres are located at all campuses. There is a separate Law Library at Gardens Point.

Hours

Hours differ from campus to campus and sometimes from different service points within locations. Full opening hours details are advertised at each location and through a variety of publications.

Membership

All staff, full-time and part-time students are automatically members and may borrow materials on any campus. Identification card(s) are required whenever and wherever a user borrows.

Staff and students may also be eligible to register for reciprocal borrowing privileges from a number of other tertiary institutions.

Services

A variety of services is available on most of the campuses.

Information Services: Staff are on duty at the Information Desks to answer queries and assist users in finding and using collections and resources. If the materials required by users are not held on their home campus, they may request an intercampus loan. Similarly, users with special research needs may be eligible for an interlibrary loan if the items are not held anywhere within the QUT. On-line searches of a large number of databases are also available.

Academic Liaison: Consultation with academic staff on the development of resources and services is promoted through the School liaison service. A liaison librarian works closely with each School in order to ensure that collections and programs will reflect their priorities.

User Education: Professional staff teach students efficient information-seeking skills through a variety of formal and informal programs. Teaching staff interested in these programs should contact their liaison librarian and students should enquire at the Information Desk or ask their lecturers.

AV Services (Northern Campuses): Classroom equipment includes overhead projectors, video and audio units, video projectors, movie and still projectors, computer data panels etc. Loan equipment includes cameras, cassette recorders, electric typewriters, video portapacks, camcorders, and other specialist hardware items. A range of specialist media services in video, audio, graphics and photography, to professional level, is available from central production services.

Computer Based Education (CBE): A large computer-based education service is housed in the University Library (Gardens Point). This facility, comprising 60 PC workstations, supports teaching in a number of faculties, and is also an important stand-alone microcomputer laboratory.

Technical Services (Northern Campuses): A central workshop on Kelvin Grove campus provides repair and maintenance services for a wide range of university audiovisual equipment as well as consultancy, design and construction of equipment for special purposes.

Other facilities: Facilities for study include study carrels, seminar rooms, lecture theatres and supporting audiovisual and computing and photocopying facilities. Translation services, displays and appropriate consultancy are also available. Guides to collections and services may be found on all campuses near the main entrance.

STUDENT SERVICES

Counselling and Health Services

The Department of Counselling and Health is an autonomous professional department of the University, and takes an active role in promoting the personal, career and educational development of students and staff and providing for their health and well being.

Counselling Services

This section assists with normal development needs. Personal and social matters, educational difficulties, welfare and financial issues, and decision making on future career and personal planning are some of the areas handled by counsellors.

The Counselling Section offers programs designed to aid the development of personal maturity and effective patterns of living, studying and working. These include workshops on interpersonal communication, assertiveness, job-hunting skills and career planning; stress management groups; and 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 Counselling Section also provides contact with many other agencies in the community offering services to students.

Services are provided by professionally qualified staff. Facilities vary across campuses but generally include consultation rooms, a seminar room, and a library of course and welfare information. Services are free of charge and available to students (both full-and part-time) and staff at all campuses, as well as to others intending to enrol at QUT in the future. All consultations are strictly confidential. Counsellors are available during normal University hours; however, out of hours appointments can be arranged.

GARDENS POINT CAMPUS

Lower Level

Community Building

Telephone: (07) 223 2111

KELVIN GROVE CAMPUS

Top Floor

Community Building

Telephone: (07) 352 8111

KEDRON PARK CAMPUS

Ground Floor

'D'Block

Telephone: (07) 357 7077

CARSELDINE CAMPUS

Level 1 Community Building

Telephone: (07) 263 6222

Health Service

The QUT Health Service is available free to both full- and part-time 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 Health Service are strictly confidential. Health Services operate in the Community Building of the Gardens Point and Kelvin Grove campuses.

GARDENS POINT CAMPUS

Lower Level

Community Building

Telephone: (07) 223 2111

KELVIN GROVE CAMPUS

Top Floor

Community Building

Telephone: (07) 352 8111

International Student Services

The section provides special assistance to overseas and migrant students. Reception, orientation, accommodation and ESL training are some of the services provided. The International Student Services also provides information and advice to the spouses and families of international students and staff members.

These services are available on each campus at the International Student Services office or through Counselling Services.

GARDENS POINT CAMPUS

Lower Level

Community Building

Telephone: (07) 223 2111

KELVIN GROVE CAMPUS

Top Floor

Community Building

Telephone: (07) 352 8111

KEDRON PARK CAMPUS

Ground Floor

'D'Block

Telephone: (07) 357 7077

CARSELDINE CAMPUS

Level 1 Community Building

Telephone: (07) 263 6222

Chaplaincy Services

The University caters for the emotional and spiritual needs of students and staff through the provision of Chaplaincy Services. The Ecumenical Chaplaincy is a joint venture of the University and the major Christian denominations. There are presently two full-time chaplains working across the campuses of QUT, operating on a schedule of weekly visits to each campus.

Chaplaincy Centres and Chapel

The Chaplaincy Centres are ecumenical, and although the chaplains represent the major Christian denominations, they are available to people of other religions as well. If necessary, they are able to put people in touch with appropriate contacts from different denominations or religions.

The Chaplaincy Centres are a focus for Christians from a diversity of traditions and theological emphases. The purpose is to encourage community and to be a lively influence within each campus. The chaplains aim to relate Christian faith to both personal commitment and to the corporate structures of church and society. Activities include counselling, social gatherings, discussion groups, eucharist, prayer and meditation groups. Chaplaincy can also serve as a bridge across the divisions that may surface in any human institution.

At the Gardens Point campus there is a Muslim mosque, in a room adjacent to the main chaplaincy rooms.

The two chaplains are Rev. Michael Campbell and Rev. John Woodley. One of the chaplains is available at the Chaplaincy Centres on the following days:

CARSELDINE, level 4 of the Community Building on Wednesday and Friday. Phone (07) 263 6222 (ext 211).

GARDENS POINT, Old Government House near the entrance to the Library, Monday to Thursday. Phone (07) 223 2111.

KEDRON PARK, phone chaplains at other campuses and they will arrange to meet with you.

KELVIN GROVE, room C420, Community Building, Monday and Thursday. Phone (07) 352 8111.

AFTER HOURS: Michael Campbell (07) 379 6054, John Woodley (074) 98 8670.

STUDENT GUILD

The QUT Student Guild plays a major role in the life of the University by providing students with services, facilities, activities and representation that enhance campus life.

This year, 1991, will be a year of consolidation for the Guild, which is the product of an amalgamation with the previous BCAE Union. The new Guild began operating in December 1990, but many issues still need to be addressed to ensure students receive the most effective and efficient services and representation.

Guild Council

The Guild is governed by Guild Council which consists of the Executive (President, General Secretary, Women's Services Director, Education Director, Welfare Services Director, Recreation Director and four Campus Directors), faculty representatives and specialist representatives (for postgraduate students, part-time and external students, Aboriginal and Torres Strait Islander students and overseas students).

All members of Guild Council are elected at the annual general elections and all students are eligible to stand for positions in the elections. Students can also nominate and vote for campus coordinators, who organise activities, events and services on the respective campuses.

Facilities and services

The Guild operates offices or student information centres on each of the four campuses of the University. Students can access a variety of services, facilities and equipment through these offices and staff are able to assist with enquiries about all aspects of the Guild and campus life.

The following is a list of the services provided by the Guild. Further details can be obtained by contacting the Guild offices.

Education and welfare services

ACADEMIC APPEALS ASSISTANCE

A member of staff visits all campuses to assist students wishing to appeal against an academic grade or academic ruling (eg exclusion) of the University.

AUSTUDY ADVICE

Specialist advice is available on how to apply and appeal a decision on Austudy eligibility.

LEGAL SERVICE

Assistance from practising lawyers is available by making an appointment at campus Guild offices. The services is free to members.

STUDENTPLAN ACCIDENT INSURANCE

All full-time and part-time students of the University are covered by StudentPlan Accident Insurance, a comprehensive policy that provides medical, hospital and other benefits to students in the event of most types of accidents, whether at home, work or during recreation activities. Enrolled students are covered 24 hours a day, anywhere in the world.

ACCOMMODATION SERVICE

The Guild is able to assist students to find suitable accommodation including hostels, flats, private board, and share houses. Accommodation noticeboards are maintained on each campus.

CHILD CARE CENTRE

The Guild operates a Child Care Centre at Gardens Point that caters for 25 children per day Monday to Friday. Fees are reasonable and government subsidies and fee relief are available. For enquiries phone (07) 221 2111.

SECONDHAND BOOKSHOPS

A wide range of secondhand books is offered for sale through Guild offices on all campuses. Students may leave unwanted texts with the service for disposal. A small handling fee is charged.

COURSE EVALUATION HANDBOOK

The Guild conducts surveys of students each year to determine their opinion on matters relating to their courses, lecturers and general standard of education received. A handbook containing results of surveys and other general education information is published each year.

Sport, recreation and activities

QUT SPORTS CENTRE

The QUT Sports Centre is located at Gardens Point and is open seven days a week. It contains a 25-metre indoor heated swimming pool, three squash courts, a sundeck and kiosk. Activities include rebound volleyball, table tennis, aqua-aerobics, training sessions, learn-to-swim classes and general fitness and relaxation swimming. For enquiries phone (07) 223 2111.

GYMNASIUMS/FITNESS CENTRES

The Guild operates gymnasiums at Kelvin Grove (phone (07) 356 8751) and Gardens Point (phone (07) 221 2111) offering fitness assessments, weights, aerobics, sauna and spa facilities squash courts (KG), and physiotherapy and sports medicine clinics. Other recreation activities are also available.

WEIGHTS ROOMS

Kedron Park and Carseldine have weight training rooms available for use by students. Contact Guild offices for further information.

GAMES ROOMS

All campuses have games room containing facilities ranging from pinball machines and darts equipment to table tennis and pool tables.

CLUBS AND SOCIETIES

The Guild provides financial and organisational assistance to clubs and societies which meet the Guild's requirements for affiliation. Clubs and societies may be educational, cultural, social, political, religious, sporting or recreational. Further information is available from Guild offices.

SPORTING COMPETITIONS

The Guild organises intercampus and interfaculty sporting competitions throughout the year. Students also have the opportunity to participate in intercollegiate sporting competitions at a state and national level. Further information is available from Guild offices.

SOCIAL AND CULTURAL ACTIVITIES

A variety of social and cultural events and activities are organised throughout the year. These include balls, cabarets, bands, barbecues, films and theatre events and may be run on each campus or as cross-campus activities.

RECREATION COURSES

A range of recreation courses are offered by the Guild. These include ski trips, exercise courses, martial arts, massage, health and relaxation, golf, self-defence, abseiling, scuba diving, parachuting and special trips such as to the Birdsville Races. Information brochures will appear throughout the year.

RECREATION EQUIPMENT

A limited equipment pool is available for use by students.

Media and publications

STUDENT NEWSPAPER

The Guild regularly publishes a free community newspaper to which students can contribute. It provides general information and also acts as a forum for a wide range of topics of student interest. Editors of the paper are elected each year and all students are eligible to stand for election.

PUBLICATIONS

The Guild produces a range of publications throughout the year, including a diary, wallplanner, newsletters, clubs and societies handbook, the Annual Report and various brochures on services and activities.

Women's services

RESOURCE AREA

A women's resource area is located at Gardens Point and is staffed by the Women's Services Officer. The area provides space for quiet study, a library of information and publications, a computer to assist with assignment work and coffee and tea-making facilities. Library information is also available on the other three campuses. The Women's Services Officer is available to assist with information, complaints and problems, and works to educate the campus community about women's issues.

WORKSHOPS AND SEMINARS

The women's area conducts workshops and seminars on a range of topics that may either be specifically relevant to women or of general interest. Topics include health, stress management, women and politics, women and media, relaxation, women and sport, meeting procedures, assertiveness training, women and careers, and self-defence.

SPECIAL EVENTS AND ENTERTAINMENT

A number of special women's events occur each year, eg International Women's Day and Blue Stocking Week. These will often include a range of entertainment such as films, bands, theatre, dances and art exhibitions.

CAMPAIGNS AND INFORMATION

The women's area runs campaigns throughout the year to highlight issues relating to women. These include sexual harassment, discrimination, child care, women in sport and women's health.

Campus office/student information centre facilities

Staff in the Guild offices or student information centres offer a variety of services, to assist students with their studies, and to help with general enquiries and problems.

A range of equipment for use by students is available in most offices, including photocopiers, for digraph machines, thermal copiers, and typewriters.

Other services provided through these offices include passport photos (Gardens Point), stationery and stamp sales, Qld Teachers Credit Union Agencies (KG, KP, CA), photodeveloping (KG, KP, CA), laminating services and sales of cassette tapes, computer disks, T-shirts and sweatshirts.

Other services

CAMPUS SHOP

The Campus Shop at Gardens Point sells a large range of calculators, shoes, sportswear, chemist lines, cigarettes and other goods and has photodeveloping and dry cleaning services.

GRADUATION GOWN HIRE

The Guild hires out gowns, hoods and caps for graduation ceremonies or photographs. Hire fees are very reasonable.

STUDENT LOUNGES

Student lounge facilities, where students can relax or socialise, are provided by the Guild at Kelvin Grove, Kedron Park and Carseldine. Cafe bar machines are available in or near the lounges.

PUBLIC TELEPHONES

The Guild provides public telephones in some areas on each campus.

For further information about the Guild, its services and facilities contact any Guild office.

The QUT Student Guild is owned by and operated for students.

ART COLLECTION

The University houses a significant collection of more than 750 international and Australian paintings, sculptures, decorative arts and works on paper. These holdings represent the fourth largest public art collection in Queensland.

The Collection encompasses works from the mid-nineteenth century to the present day, and its greatest strengths lie in the group of early twentieth century works by Queensland-based artists and extensive holdings of Australian art of the 1970s.

Other holdings of importance include: the George Daughtrey Bequest, comprising Australian paintings, sculptures and prints; a collection of nineteenth century Japanese woodcuts; the Erminio Aili Collection of naive art; and a group of forty-five ceramics by eminent Australian potter, Carl McConnell.

The University maintains a strong commitment to contemporary art through the acquisition of significant works by Australian artists, especially in the areas of paintings, prints and ceramics.

The Collection is a primary cultural resource for the purposes of study, education and enjoyment for the University's student body and staff and the general community.

The Collection is administered and managed by the University Curator, Stephen Rainbird.

2

Student Rules

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ADMISSION RULES AND PROCEDURES

1. Introduction

The admission rules and procedures which follow are those of the Queensland University of Technology following its amalgamation, during 1990, with the Brisbane College of Advanced Education. This statement of the rules replaces previous statements by both institutions and applies to the admission period commencing in late 1990 and extending to February 1991. Applicants who consider that they have been disadvantaged by the introduction of these rules should put their case in writing to the Registrar.

Reference to the Registrar includes reference to any officer of the University authorised by the Registrar to carry into effect any or all of the powers, duties and responsibilities included in these rules.

1.1 Nature of the admission and enrolment process

Admission to courses offered by the University is governed by published entry requirements, and enrolment levels in first year are limited by quota. Entry to a course therefore requires that applicants:

- ☐ satisfy entry requirements, including prerequisite subjects, and any other course requirements;
- ☐ apply for admission on the prescribed form and gain a place in the quota for the course concerned; and
- ☐ complete all prescribed enrolment formalities including payment of the relevant fees.

1.2 Authority to make and withdraw offers

Offers of admission to any course are made only by the Registrar or by an officer of the University expressly authorised to do so, or by the Queensland Tertiary Admissions Centre acting on behalf of the University. Verbal offers of admission, or any other form of written admission offer, should be disregarded.

Offers may be conditional upon provision of proof of completion of prerequisite qualifications or upon other factors detailed in the offer letter. Failure to meet the conditions of offer will result in the withdrawal of the offer and cancellation of enrolment.

The Registrar reserves the right to withdraw any offer of admission and cancel the enrolment of any person where such offer was made on the basis of incomplete or inaccurate information supplied by the applicant or a certifying authority.

1.3 Deferral of enrolment

Applicants who receive an offer of admission are entitled to apply to defer their enrolment until the first semester of the following academic year.

Unless otherwise specified deferral is automatic for undergraduate applicants who are made an offer and respond within the specified time. The option to request deferral may be extended past the specified times at the discretion of the Registrar. Applicants granted deferral will receive written confirmation from the University.

1.4 Eligibility for external status

The University offers a number of courses by external study. In addition to meeting the normal entry criteria for these courses, applicants must satisfy the following residential requirements to be eligible for external status:

Bachelor of Laws: applicants must be resident in Queensland outside the Brisbane Statistical Division.

All other external courses offered by the University: applicants must be resident outside a 15-kilometre radius of the campus(es) from which the course is offered.

1.5 Categories of applicants; relevant application forms

Applicant

Form

Current Queensland Year 12 students
Applicants (for undergraduate courses) who are not
current Queensland Year 12 students
Applicants who wish to sit for the ASAT
International full-fee-paying students
Applicants for honours, graduate diploma
and master degree courses
Cross-institution students (seeking enrolment in
certain subjects to complete an award at
another institution)
Visiting students (seeking enrolment in certain
subjects for professional development etc)
QUT students wishing to transfer from one
QUT course to another
QUT students applying to re-enter a course
following exclusion or termination of enrolment
PhD applicants

QTAC Form 'A'

QTAC Form 'B'

QTAC Form 'T'

QUT Form 'F'

QUT Form 'P'

QUT Form 'X'

QUT Form 'V'

QUT Form 'I'

QUT Form 'R'

QUT Doctor of
Philosophy form

2. Admission procedures

2.1 Undergraduate courses

Applicants seeking entry to any bachelor's degree, undergraduate diploma or associate diploma course at the University must apply through the Queensland Tertiary Admissions Centre (QTAC) on the prescribed Application for Quota Entry form by 1 October 1990. These forms are:

☐ Form 'A' (distributed by schools)

Current Queensland Year 12 students; and

☐ Form 'B' (available from QTAC or tertiary institutions)

All other applicants, including interstate matriculants and those sitting for the external Senior examinations.

LATE APPLICATIONS

Applications received after 1 October 1990 will be considered only on payment of a late fee.

2.2 Postgraduate courses

Applicants seeking entry to honours degree, graduate diploma and master degree courses at the University must apply on Form 'P' direct to QUT, enclosing all specified documentation. PhD applicants must apply direct to QUT on the Doctor of Philosophy application form. Applications for these courses are not processed through QTAC.

LATE APPLICATIONS

Applications received after the closing date may be subject to a late fee.

2.3 Procedures for international students

International students are those who are not Australian or New Zealand citizens or migrants holding a visa giving permanent resident status in Australia. Such applicants must comply with Australian Government visa requirements and must apply to QUT by early November of the year preceding intended study, using Form 'F'. However, international students undertaking Year 12 education in Queensland apply through QTAC using Form 'A'.

Nearly all QUT full-time courses are available to international students.

Selection is based on academic merit and applicants must satisfy the University's minimum entry and course requirements for international students and demonstrate proficiency in English.

While late applications may be considered, applications received later than the end of December are unlikely to be approved.

2.4 Readmission following exclusion or termination of enrolment

Students who wish to re-enter a course after a period of exclusion or a period of non-participation (leading to termination of enrolment) may apply to do so as follows:

- ☐ if re-entering the first year of an undergraduate course: apply through QTAC using Form 'B'
- ☐ if re-entering at second or later years of an undergraduate course: apply to QUT using Form 'R'
- ☐ if re-entering any year of a postgraduate course: apply to QUT using Form 'R'

2.5 Transfer between QUT courses

QUT students who wish to transfer from one QUT course to another should apply as follows:

UNDERGRADUATE STUDENTS

- (i) if transferring within a faculty or transferring from a combined degree to one of the component degrees: use Form 'I'.
- (ii) if transferring between faculties: use QTAC Form 'B'

POSTGRADUATE STUDENTS

- (i) if transferring within a faculty: use Form 'I'.
- (ii) if transferring between faculties: use Form 'P'.

CHANGE OF ATTENDANCE FROM PART-TIME TO FULL-TIME STUDY IN UNDERGRADUATE COURSES

Part-time students may transfer from part-time to full-time enrolment in a particular course provided that they have a Selection Score at least equal to the minimum entrance score for the full-time course in the latest admission period, or have been enrolled part-time in the course for four semesters or more.

2.6 Non-award studies

Non-award students are those who have approval to undertake certain subjects drawn from an award course without enrolling in the course itself. There are two categories of such students:

Cross-institution students who undertake QUT subjects for credit towards an award course at another institution; and

Visiting students who undertake subjects from award courses for purposes of professional or personal development, or in order to meet course entry requirements.

Non-award students are required to make application for each semester in which they wish to study. Applicants are responsible for obtaining information on subject availability, suitability of their background, and timetables. Such information is available from the relevant Departments. Cross-institution students apply on Form 'X' and visiting students on Form 'V'.

Cross-institution students are required as a condition of their enrolment to make payments under the Higher Education Contribution Scheme. **Visiting students** are required to pay tuition and other fees as advised by the University.

Applications for enrolment as a non-award student may be rejected if the applicant does not have sufficient educational background for the subject concerned or is under exclusion from a university award course; or if there are insufficient places in the relevant class.

Non-award students are subject to the University's student rules generally, with the exception of those relating to academic progress.

The University has imposed a limit on the proportion of a course which may be completed by non-award study. The limit is 20 per cent of the credit points required for the course.

2.7 Continuing education

The University provides a range of special courses for personal and professional development. Detailed information on these courses and on application procedures and tuition fees can be obtained from the continuing education office.

3. Admission criteria

Selection is based upon one or more of the following:

- ☐ Prerequisite studies
- ☐ Academic merit
- ☐ Interviews, auditions and folios
- ☐ Physical capacity
- ☐ Eligibility for mature age entry
- ☐ Special consideration

3.1 Prerequisite studies

The prerequisite subjects for undergraduate courses are set out in the University's Admission Procedures booklet. These must be completed and specified levels of achievement reached in Years 11 and 12 at a Queensland secondary school (or by equivalent study).

Certain postgraduate courses require completion of specific prior studies (see Admission Procedures booklet for details).

3.2 Academic merit

Academic merit in respect of undergraduate courses is measured in terms of Tertiary Entrance (TE) Scores or Selection Scores.

TERTIARY ENTRANCE SCORES

All applicants who completed Year 12 in 1974 and later years under the Queensland Radford and ROSBA systems are allocated a Tertiary Entrance Score by the Board of Senior Secondary School Studies. Students completing Year 12 in the current year will

receive notification of their TE Scores in December. Selection of school-leavers for most courses is on the basis of their TE Score. However, in some instances an interview or audition may also be necessary.

SELECTION SCORES

Scores 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. Selection Scores are calculated on the basis of academic achievement according to prescribed admission schedules and related rules (see Tables 1, 2 and 3 for details).

For admission to postgraduate courses academic merit (measured in terms of grade point average achieved in undergraduate studies) is also a major factor, but in some courses length of relevant experience, personal qualities, or skills are given considerable weight.

3.3 Interviews, auditions and folios

Admission to certain courses is contingent upon an audition, interview or presentation of a folio of artwork, or other non-academic prerequisites. Details of such courses are given in the Admission Procedures booklet. Applicants must conform with the requirements specified in order to be considered for admission.

3.4 Physical capacity

A medical certificate indicating physical capacity to undertake specific courses may be required. Applicants with doubts about their capacity to complete a particular course should contact the Counselling Centre on the relevant campus. Details of these courses can be found in the Admission Procedures booklet.

Applicants with disabilities or health problems who may require special assistance or support during their studies are encouraged to make early contact with the Counselling Centre on the relevant campus.

Assistance with physical and study facilities, and informing appropriate staff of special needs can be expedited with early notice. An information booklet – *A Guide for Students with Disabilities* – is available on request.

3.5 Eligibility for mature age entry

A scheme for mature age entry to undergraduate courses operates in all faculties within the University. Normally, applicants must be 25 years of age or older and not have completed matriculation (Year 12) or attempted a tertiary course. International full-fee paying students are not eligible to apply under this scheme.

Through this scheme the University enables persons of mature age, who lack formal qualifications, to establish their eligibility for admission to a course. While the selection criteria may vary for different courses, admission to all courses is dependent on satisfactory performance in a specially-designed aptitude test.

Applications for mature age entry must be made through the Queensland Tertiary Admissions Centre in the normal way and well in advance of the closing date. Applicants must lodge an Application for Nomination to Sit Special Aptitude Test Form 'T' with appropriate fees, at the same time as they lodge their application for quota entry through QTAC. This nomination form is included with the QTAC application material and need not be requested separately.

The ASAT (Australian Scholastic Aptitude Test) is a two-hour objective test of 75 to 85 questions with multiple choice answers. Questions are grouped in units, based on stimulus material in a variety of forms. Any specific information required to answer the question is contained in this stimulus material, pitched at a level of knowledge assumed to be

common to students at Year 12 level. All applicants will be provided, usually about 10 days before their scheduled test, with a Student Information Bulletin which contains questions similar to those in the actual test.

Due to the number of applicants for entry through this scheme and the time required to assess such applications, late applications will not be referred to QUT for consideration.

It is the responsibility of applicants seeking entry under this scheme to present in addition a fully documented case upon which their eligibility can be assessed, including:

- ☐ Details of formal education including level reached; state and country; year; subjects and results. Documentary evidence should be provided if possible.
- ☐ Details of other study or development programs attempted since leaving school. Applicants should provide a full description of the program(s) including purpose, structure, and information on the organising body; duration of classes, seminars, results obtained and the perceived benefits of having participated or reasons for non-completion. Documentation should be provided.
- ☐ Details of employment history with particular emphasis on the preceding five years, including employer(s); duration of service; positions held and duties; other employment information considered relevant to the course to which admission is sought. Copies of duty statements and employment-related references should be provided.
- ☐ Proof of memberships and affiliations with recognised professional and semi-professional bodies, eg, ICMSA, ASA etc.
- ☐ A statement indicating the reasons for wishing to undertake tertiary study.
- ☐ Any other factors which may indicate ability to successfully complete a tertiary-level course.

Applicants who have completed Year 12 or matriculation-level studies but have failed to achieve the necessary standard are not considered under these mature age provisions. Such persons are able to improve their prospects of selection by further study.

3.6 Special consideration

Applicants who feel that their academic performance has been adversely affected by ill-health or other circumstances have the opportunity of specifying these circumstances on their application form. Such special consideration requests and any supporting documentation which may be attached will be taken into account when applications are being considered. Requests for special consideration received after applications have been processed will not be accepted.

Some categories of applicants relying on overseas qualifications to satisfy entry requirements may wish to nominate to sit for the ASAT to enhance their prospects for entry. Details relating to ASAT are listed above, under **Eligibility for mature age entry**. Applicants should consult with the QUT Admissions Office before forwarding nomination Form 'T' to QTAC.

Australian permanent residents with recent overseas qualifications who have no evidence of formal English study may be required to sit for the QUT English test. Such applicants will be contacted in writing after a QTAC application form has been lodged.

3.7 Special admission programs

The University has developed a number of programs specifically designed to increase the access to tertiary studies of disadvantaged or minority groups.

NEW OPPORTUNITIES IN TERTIARY EDUCATION – (THE N.O.T.E. PROGRAM)

This program is a joint QUT and Commonwealth Government initiative to increase the participation of women in careers in engineering, science and technology. The major areas of emphasis are:

Engineering	– Civil, Electrical and Mechanical; Surveying
Information Technology	– Business Computing and Computing Science
Science	– Geology, Chemistry, Physics and Mathematics
Health Science	– Environmental Health
The Built Environment	– Architecture and Industrial Design, Construction Management, Quantity Surveying and Property Economics

N.O.T.E. is a bridging program. That is, it offers students the opportunity to study prerequisite subjects for entry to a chosen course in the above fields. In line with Commonwealth Government criteria that require students to be integrated into award courses as quickly as possible, the N.O.T.E. bridging program comprises studies in mathematics and/or science plus some subjects from the first year of the award course selected by the student.

While primarily aimed at more mature women, ie, those not directly from high school, consideration will be given to school leavers. **This program cannot assist school students who failed to gain entry to a course solely because their TE Score was too low.**

For intending students over 25 year of age, the **minimum** requirement is previous studies in advanced level mathematics to the end of Year 10 (Queensland). This means that students will have previously studied trigonometry and algebra and the course will assume initial competence in the **basics** of these areas.

Intending students should note that this program will achieve a Selection Score for entry to QUT courses only; it may not be transferable to other institutions.

The program commences in February each year (commencement of the university year). Applications for admission should be submitted by mid-January of that year.

SCIENCE AND MATHEMATICS BRIDGING COURSES

Three types of short courses offering senior-level mathematics, chemistry and physics are available through the Faculty of Science to help students make a successful transition to tertiary-level mathematics-based and science-based courses.

Intensive, refresher and bridging courses are offered, subject to sufficient demand, in January each year. An introductory bridging course commences in February and is repeated in second semester if there is sufficient demand. These courses are outlined below.

The **Intensive Course** can assist students to gain entry to selected QUT courses for which they were previously ineligible.

Students whose TE Score or notional TE Score will qualify them for entry into one of the courses listed below, but who lack either Mathematics I, or Physics or Chemistry where these are prescribed subjects, or who did not reach a level of sound achievement (or equivalent) in such subjects, will be guaranteed a place in the relevant QUT course provided a satisfactory result is obtained in the intensive bridging subject(s) undertaken.

BAppSc	Multidisciplinary (Biology, Chemistry, Microbiology/Biochemistry, Geology, Physics, Mathematics)
BAppSc	Applied Chemistry
BAppSc	Medical Radiation Technology (Medical Imaging Technology) (Radiotherapy Technology)
BAppSc	Environmental Health
BAppSc	Podiatry
BAppSc	Medical Laboratory Science
BAppSc	Surveying
BAppSc	Built Environment (Architecture) (Industrial Design)
BAppSc	Computing
BBus	Computing
BBus	Accountancy
BBus	Management
BEng	(Civil, Electrical, Mechanical)
DipAppSc	Nursing
AssocDip	Clinical Laboratory Techniques
AssocDip	Applied Science (Chemistry/Biology)

The **Refresher Course** assists people who have previously studied mathematics, chemistry or physics to Senior level to renew their skills in one or more of these areas.

Participation in this course is open to any student who expects to undertake a mathematics-based or science-based tertiary course in 1991.

An **Introductory Course** is run for intending tertiary students who have not completed Mathematics I, Physics and Chemistry to Year 12 level and who wish to qualify for entry in 1992 to a tertiary course which requires one or more of these subjects.

Several tertiary institutions have indicated their willingness to accept successful completion of introductory bridging subjects for admission to their courses. Applicants should contact the institution offering the selected course and confirm the position regarding these subjects, as well as the level of attainment required.

QUT will accept successful completion of either an intensive or an introductory bridging subject as satisfying the corresponding Senior subject prerequisite for admission to the courses listed above.

Full details of these courses are available from the Administration Officer, Faculty of Science.

ABORIGINAL AND TORRES STRAIT ISLANDER PROGRAM WITHIN THE DIPLOMA OF EDUCATION – EARLY CHILDHOOD

The objective of this program is to increase the number of Aboriginal and Torres Strait Islander teachers presently employed in early childhood centres.

The program follows the pattern of study for the Diploma of Education – Early Childhood. However, the sequence is modified to include additional study in certain areas of general education in the first year of the course. These include study and communication skills, and are intended to assist students with subsequent units in the second and third years of the course.

Entry to this program is limited to Aborigines and Torres Strait Islanders. Applicants are selected and admitted under the special consideration provisions of the University. Applicants are requested to attend an interview and to complete several academic tasks. The program commences in second semester each year and application for admission is made direct to QUT.

Admission Schedules

TABLE 1: Selection Scores where application is based upon Queensland Senior results

NTE SCORE	Senior Examination (5 best subjects)					Senior Examination (4 best subjects)			Radford (20 best units)	Com- bined Modes	NTE SCORE
	1959 & Earlier	1960-66	1967-70	1971-86	1987- Present	1967-70	1971-86	1987- Present	1973		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
987	28	30	31	32	32.50	24	27	26	128	32	987
982					32	22	25	24.50	125	31.50	982
977	27	29	30	31	31			24	122	31	977
972					30.50	21	24	23.50	120	30.50	972
967	26	28	29	30	30				118	30	967
962					29.50			23	116	29.50	962
957	25	27	28	29	29	20	23		115	29	957
952					28.50			22.50	113	28.50	952
947	24	26	27	28	28				112	28	947
942					27.50	19	22	22	110	27.50	942
937	23	25	26	27	27				108	27	937
932								21.50	107	26.75	932
927					26.50				106	26.50	927
922						18	21	21	105	26.25	922
917	22	24	25	26	26			20.50	104	26	917
912					25.50		20	20	103	25.50	912
907								19.50	101	25.25	907
902	21	23	24	25	25	17	19	19	100	25	902
897								18.50	99	24.75	897
892	20	22			24.50		18	18	98	24.50	892
887	19	21	23					17.50	97	24.25	887
882	18	20	22	24	24	16	17	17	96	24	882
877								16.50	95	23.75	877
872					23.50				94	23.50	872
867									93	23.25	867
862	17	19	21	23	23	15	16	16	92	23	862
857									91	22.75	857
852					22.50			15.50	90	22.50	852
847									89	22.25	847
842	16	18	20	22	22			15	88	22	842
837									87	21.75	837
832					21.50	14	15		86	21.50	832
827								14.50	85	21.25	827
822	15	17	19	21	21				84	21	822
817					20.50				82	20.50	817
812		16	18	20	20			14	80	20	812
807					19.50				78	19.50	807
802			17	19	19	13	14		76	19	802
797								13.50			797
792	14	15							75	18.75	792
787					18.50				74	18.50	787
782									73	18.25	782
777	13	14	16	18	18		13		72	18	777
772											772
767								12.50		17.75	767
762					17.50				71	17.50	762
757										17.25	757
752											752
747	12	13	15	17	17	12	12	12	70	17	747

This schedule does not apply to applicants who have attempted one year or equivalent of full-time tertiary study. Such applicants should refer to Table 3 of this booklet.

The schedule is applicable to applicants representing the following cases:

1. Applicants who have completed the Queensland Senior Examination in the period 1959 to the present, excluding 1973. Refer to column 1,2,3,4 or 5 as appropriate.
 - (i) Results to 1966 are converted as follows: A = 6, B = 5, C = 4, P or Q = 3, N = 0.
 - (ii) For 1974 and later years columns 4 or 5 apply only to candidates for the Board of Senior Secondary School Studies External Senior Examination. Convert ROSBA ratings as per the schedule below.
2. Applicants who have not completed Years 11 and 12 at secondary school, but have completed at least five External Senior subjects, not having reached the age of 21 years on or before 31 December of the year in which the last External Senior subjects were attempted. Refer to column 4 or 5 as appropriate. Convert ROSBA ratings as per the schedule below.
3. Applicants who have completed at least four External Senior subjects, having attained the age of 21 years on or before 31 December in the year of completing the last External Senior examination. Refer to column 6, 7 or 8 as appropriate. Convert ROSBA ratings as per schedule below.
4. Applicants who completed Year 12 in 1973. Refer to column 9.
5. Applicants who have completed Years 11 and 12 at secondary school, who have subsequently completed one or more External Senior subjects (and do not meet the conditions of rule 3 above). Refer to column 10. The following rules apply to the calculation of Selection Scores:
 - (i) Only External Senior subjects with grades of Sound Achievement (SA) or better will be used in the calculation.
 - (ii) Original Senior subjects used in the calculation must have been taken over two or more semesters.
 - (iii) Results for a total of five subjects will be taken into account. Only one attempt at any one subject will be included.
 - (iv) Any subject prerequisites specified for particular courses must be satisfied (by studies in either mode), but results for such subjects will not necessarily be used in the calculation of Selection Scores.

The Selection Score is calculated as follows:

- ☐ Calculate an average grade for each multiple-grade (Radford) subject (where applicable).
- ☐ Convert ROSBA ratings as per schedule below.
- ☐ Calculate total over five selected subjects and read selection score from column 10.
- ☐ The scale used for converting ROSBA ratings is:

Very High Achievement (VHA)	=	6.5
High Achievement (HA)	=	5
Sound Achievement (SA)	=	4
Limited Achievement (LA)	=	2
Very Limited Achievement (VLA)	=	1

TABLE 2: Selection Scores where application is based on Senior equivalents from other States or territories

NTE SCORE	'AGGREGATE SCORE' FOR STATE 'HSC/MATRICULATION CERTIFICATE'																	NTE SCORE
	NEW SOUTH WALES				VICTORIA				SOUTH AUSTRALIA/ NORTHERN TERRITORY				WESTERN AUSTRALIA				TAS	
	1976-82	1983-84	1985-88	1989	1972-75	1976-82	1983-88	1989	1983-85	1986-87	1988	1989	1986	1987	1988	1989	1989	
987	424	425	438	442	328	333	357	362	457	91	90	90	430	433	440	437	892	987
982	408	414	427	431	320	324	348	354	446	89	88	88	418	424	428	425	871	982
977	400	401	417	422	314	317	341	347	439	88	87	86	410	415	418	416	854	977
972	391	396	409	415	309	311	335	341	431	86	85	85	403	409	410	409	841	972
967	383	389	402	408	305	306	330	335	425	85	84	84	396	404	403	402	830	967
962	376	383	396	402	301	301	325	331	420	84	83	83	392	398	398	397	816	962
957	370	377	390	397	297	297	321	326	415	83	82	82	387	393	393	392	802	957
952	364	372	384	391	293	293	317	322	410	82	81	81	383	388	389	387	788	952
947	358	366	379	386	290	289	313	319	405	81	80	80	378	383	384	383	778	947
942	354	362	374	381	287	286	310	315	400	80	79	79	375	380	380	379	770	942
937	348	357	369	376	284	283	306	312	396	79	78	78	371	377	376	375	762	937
932	345	353	365	372	281	280	303	308	392	78	78	78	368	373	373	372	755	932
927	340	349	361	368	279	278	300	305	389	77	77	77	364	370	370	368	750	927
922	336	345	356	364	276	275	297	303	385	77	76	76	361	367	366	365	743	922
917	332	341	352	360	274	273	294	300	381	76	75	75	358	364	363	362	735	917
912	329	337	348	356	272	271	292	298	378	76	75	75	355	361	360	359	728	912
907	325	333	345	352	270	268	290	295	376	75	74	74	352	358	358	357	721	907
902	322	330	341	348	268	266	287	293	373	74	74	74	349	356	356	354	715	902
897	318	327	337	345	266	264	285	290	370	74	73	73	347	353	353	352	709	897
892	315	323	334	341	264	262	283	288	367	73	72	72	344	351	351	349	704	892
887	311	320	330	338	261	260	281	286	365	73	72	72	342	348	348	346	698	887
882	308	317	327	335	258	258	279	284	362	72	71	71	339	346	345	343	691	882
877	304	314	323	332	256	256	277	282	360	72	71	71	337	344	343	341	685	877
872	301	311	320	329	254	254	275	280	357	71	70	70	334	341	341	339	679	872
867	298	309	317	326	252	252	273	278	355	71	70	70	331	339	339	337	672	867
862	295	306	314	322	250	250	271	276	353	70	69	69	329	337	336	334	666	862
857	292	303	311	320	248	248	269	275	350	70	69	69	326	334	334	332	658	857
852	289	300	308	317	246	246	268	273	348	69	68	68	324	332	332	330	653	852
847	287	297	305	314	244	244	266	271	345	69	68	68	321	329	330	328	646	847
842	284	294	302	310	242	242	264	270	343	68	67	67	318	327	328	325	638	842
837	281	292	299	307	240	240	263	268	340	68	67	67	316	325	326	323	630	837
832	278	289	296	304	238	239	261	266	338	67	66	66	313	323	324	321	618	832
827	275	286	293	301	236	237	259	265	336	67	66	66	311	320	321	318	608	827
822	272	283	291	298	235	235	258	263	334	67	66	66	309	318	319	316	596	822
817	270	280	288	296	233	233	256	262	332	66	65	65	306	316	317	314	583	817
812	267	278	285	293	232	231	255	260	330	66	65	65	304	314	315	311	571	812
807	264	275	283	290	230	229	253	258	327	64	64	64	301	311	313	309	558	807
802	261	272	280	287	228	227	251	257	325	64	64	64	299	309	311	307	546	802
797	258	270	277	285	226	225	250	255	323	65	63	63	296	307	309	304	533	797
792	254	267	275	282	224	223	248	254	321	63	63	63	293	304	306	302	513	792
787	251	264	272	280	222	222	247	252	319	64	62	62	291	301	304	299	480	787
782	248	262	269	277	220	220	245	251	317	62	62	62	288	299	302	297	453	782
777	245	259	267	274	218	216	244	249	315	63	61	61	285	297	300	295	386	777
772	242	257	264	272	216	215	242	248	312	63	61	61	282	294	297	292	772	772
767	239	254	261	270	214	212	241	247	310	62	60	60	279	291	295	290	767	767
762	235	251	259	267	210	209	245	250	307	62	60	60	276	289	292	287	762	762
757	232	248	256	265	208	208	238	244	305	60	60	60	273	286	290	285	757	757
752	229	246	254	263	206	206	236	242	302	59	59	59	270	283	288	282	752	752
747	226	243	251	260	203	203	234	240	300	61	59	58	266	281	285	279	747	747
742	224	240	249	258	202	202	233	239	297	60	58	57	263	278	283	276	742	742
737	223	238	245	255	201	201	231	238	294	60	58	57	258	275	280	273	737	737
732	221	235	244	252	200	200	229	236	291	59	57	56	254	272	278	270	732	732
727	220	234	243	251	199	199	228	235	289	59	56	56	249	268	275	267	727	727
722	219	233	242	250	198	198	226	233	286	58	56	55	244	265	272	263	722	722
717	218	232	241	249	197	197	224	232	283	58	55	55	239	261	269	259	717	717
712	217	231	240	248	196	196	222	230	279	57	55	54	234	257	266	254	712	712
707	216	230	239	247	195	195	221	228	276	57	54	53	229	253	263	250	707	707
702	215	229	238	246	194	194	219	227	273	56	53	52	221	249	259	245	702	702
697	214	228	237	245	193	193	218	226	270	56	53	52	213	245	256	240	697	697
692	213	227	236	244	192	192	217	225	267	55	52	51	204	239	252	235	692	692
687	212	226	235	243	191	191	216	224	263	55	51	50	194	235	248	229	687	687
682	211	225	234	242	190	190	215	223	259	54	50	49	179	229	244	223	682	682
677	210	224	233	241	189	189	214	222	255	53	50	48	155	224	240	216	677	677
672	209	223	232	240	188	188	213	221	250	52	48	47	124	217	236	206	672	672
667	208	222	231	239	187	187	212	220	246	52	47	46	121	210	231	196	667	667
662	207	221	230	238	186	186	211	219	240	51	46	44	119	201	225	183	662	662
657	206	220	229	237	185	185	210	218	235	50	44	43	117	191	219	167	657	657
652	205	219	228	236	184	184	209	217	228	49	43	41	115	178	213	144	652	652

New South Wales – For 1976-85 based on the aggregate provided by NSW BOSS. For 1986 onwards based on the UCAC University of Sydney aggregate.

Victoria – Based on the 'best 4' aggregate at the VISE/VCAB HSC examinations.

South Australia/Northern Territory – Based on the matriculation aggregate at the PEB/SSABSA matriculation examination.

Western Australia – Based on the frequency distributions of UWA aggregates of school-leavers.

Tasmania – 1989 onwards. Aggregate marks in best six level III approved subjects; or aggregate marks in five subjects if only five are taken, or four if only four are taken. Lower passes are not counted. Subjects may be taken over not more than two (not necessarily consecutive) years and only approved combinations of subjects specified in the matriculation rules of the University of Tasmania are allowed.

1. For ACT applicants, the percentile rank by age cohort shown on the ACT Year 12 Certificate is treated as equivalent to a BSSS TE Score.

2. Prerequisites:

(i) Australian Capital Territory

Applicants are required to have obtained a result of 50 or more in the corresponding major course(s).

(ii) New South Wales
(1978 - 85)

Applicants are required to have undertaken the corresponding HSC subject(s) at 2U level and to have obtained a result at the 31st percentile band or higher. English may be undertaken at 2U or 2U General level. Again the percentile band required is the 31st or higher.

(1986 onwards)

Applicants are required to have undertaken the corresponding HSC subject(s) at 2U level and to have obtained an average result of 50 or more. English may be undertaken at 2U or 2U General level. Again the average result must be 50 or more.

4U Multistrand Science satisfies Biology, Chemistry and Physics prerequisites.

(iii) South Australia and Northern Territory

The SA/NT subject Maths 1S satisfies the Maths I prerequisite. Where four semester units of English at Sound Achievement or higher level is a specified prerequisite, the English prerequisite will not be waived.

Applicants are required to have obtained a result of 50 or more (from 1986 onwards: Higher Education Entrance Score multiplied by 5) in the corresponding PES subject(s).

(iv) Victoria

The subject General Maths satisfies the Maths I prerequisite. Applicants are required to have obtained a result of 50 or more in the corresponding HSC subject(s).

(v) Western Australia

The Western Australia subjects Maths II and III satisfy the Maths I and Maths II prerequisites. The Western Australia subjects Maths I and IV are not acceptable.

(vi) Where 'English as a second language' is offered as a matriculation level subject, it will satisfy the English prerequisite where four semester units of English at Sound Achievement is a specified prerequisite.

TABLE 3: Selection Scores where application is based on tertiary study

For use in respect of applicants who have attempted at least one year's full-time study (or equivalent) in a degree, diploma or associate diploma course but have not graduated ('partial'); and applicants who have completed course requirements.

Grade Point Average (GPA)	Course Level/Selection Score					
7 Point Scale	Associate Diploma		Diploma		Degree	
	Partial	Complete	Partial	Complete	Partial	Complete
6.5 +	932	957	957	972	972	987
6.25 – 6.49	927	947	942	962	962	982
6.00 – 6.24	922	942	937	957	957	977
5.75 – 5.99	917	932	932	952	952	972
5.50 – 5.74	902	927	922	947	942	967
5.25 – 5.49	892	922	912	937	932	962
5.00 – 5.24	882	912	902	932	922	957
4.75 – 4.99	862	902	882	927	902	952
4.50 – 4.74	842	892	872	922	892	947
4.25 – 4.49	822	882	862	912	882	937
4.00 – 4.24	812	872	852	907	872	927
3.75 – 3.99	787	857	837	902	857	922
3.50 – 3.74	762	832	827	897	847	917
3.25 – 3.49	742	812	817	887	837	907
3.00 – 3.24	732	802	812	882	827	897
2.75 – 2.99	717	792	797	872	812	887
2.50 – 2.74	707	772	777	852	792	867
2.25 – 2.49		757		837		852
2.00 – 2.24		737		817		832
< 2.00		717		797		812

1. Applicants who have attempted less than one year of full-time study (or equivalent) of a tertiary level course retain their TE or Selection Score derived from their secondary level studies (as calculated by this institution).
2. Applicants who have attempted the equivalent of one year of full-time tertiary study are allocated a score on either of the following bases: (i) the grade point average (GPA) of their tertiary level studies or (ii) the TE or Selection Score derived from their secondary level studies (as calculated by this institution). The applicant will then be allocated the higher of the two scores.
3. Applicants who have attempted more than the equivalent of one year of full-time study will be allocated a score only on the basis of their tertiary study. Any subsequent Year 12 or External Studies undertaken by such applicants will only be considered for meeting prerequisite subject requirements and not for the calculation of Selection Score.

4. Automatic refusal of admission applies to the following categories of applicants seeking entry to QUT:
 - (i) Applicants for degree level courses offered by the Faculties of Law and Engineering who are subject to exclusion from like disciplines at another institution.
 - (ii) Applicants for courses offered by the Education Faculty who are subject to exclusion or who have failed the practical component of a similar course at this or another institution.
5. Where an applicant has enrolled in more than one level of award set out in the schedule the highest level will be used for the allocation of a score, unless it is determined that one or more of the other levels should be taken into account.
6. Applicants who have completed honours degrees or postgraduate courses will be allocated scores on the following basis:
 - (i) An applicant who has obtained a doctorate or a bachelor's degree with first class honours will be allocated a score of 987.
 - (ii) An applicant who has obtained a bachelor's degree with second class honours division A or a master degree will be allocated a score of 982.
 - (iii) An applicant who has obtained a bachelor's degree with second class honours division B will be allocated a score of 962.
 - (iv) An applicant who has completed a postgraduate diploma will be allocated a score on the basis of the schedule as it applies to a bachelor's degree.

Calculation of a Grade Point Average

Grade Point Average (GPA) is defined to mean the average of the grade of result obtained by a student in subjects in which the student enrolled, weighted by the credit point value of each subject in accordance with the following formula:

$$(i) \text{ GPA} = \frac{\Sigma(G \times W)}{\Sigma W}$$

W = weight attached to each subject (credit points, percentage contact hours associated with each unit or 1 in the case where all subjects are of equal weight).

- (ii) If credit point weightings are provided they should be accepted and used. In the remaining cases it will be necessary to assume that subjects are weighted equally. Where the grades of result are not in the range 1 to 7 the results will be converted to this range in a manner determined by the Registrar.
- (iii) All numerical grades (failures as well as passes) should be included in the calculation, with administrative failures (withdrawn with penalty/did not sit) counted as a grade of 1. Only pass/fail gradings should be omitted.

In the case of applicants for admission to postgraduate courses a GPA should be calculated using the applicant's undergraduate degree or diploma studies. Further studies may be used to satisfy prerequisites but will not be used in computing the GPA.

Examples of common grading systems:

7	HD	—	High Distinction	6.5	H	—	Honours
6	D	—	Distinction	5	C	—	Credit
5	C	—	Credit	4	P	—	Pass
4	P	—	Pass (Pass Plus 4.5)	3	PC	—	Pass Conceded
3	PC	—	Pass Conceded	2	F	—	Fail
2	F	—	Fail				
1		197	Gross Fail				

STUDENT RULES, POLICIES AND PROCEDURES

The following rules are based on the rules which existed prior to 1991 at the Queensland University of Technology and the Brisbane College of Advanced Education. They have been drawn up with the aim of providing the least disadvantage to continuing students. If a student considers that he or she has been disadvantaged by a change in the rules, the student should make the case in writing to the Registrar.

In these rules, reference to the Registrar includes reference to any officer of the University authorised by the Registrar to carry into effect any or all of the powers, duties and responsibilities included in these rules.

1. Enrolment

1.1 Enrolment (commencing students)

FORM: Enrolment Form for Commencing Students
SOURCE: Student Administration, Campus Office
SUBMIT TO: Student Administration, Campus Office

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 the University
- ☐ payment of prescribed fees (unless the Registrar has granted an extension of time for such payment and has accepted the enrolment subject to payment at a later prescribed date)
- ☐ submission of a completed HECS payment option form
- ☐ completion of any other required procedures.

1.2 Re-enrolment (continuing students)

FORM: Enrolment Form for Continuing Students
SOURCE: Student Administration, Campus Office
SUBMIT TO: Student Administration, Campus Office

A continuing student is required to lodge an enrolment form each calendar year. A continuing student is enrolled on completion of the following:

- ☐ submission of a completed enrolment form and its acceptance by the University
- ☐ payment of prescribed fees (unless the Registrar has granted an extension of time for such payment and has accepted the enrolment subject to payment at a later prescribed date)
- ☐ completion of any other required procedures
- ☐ provided that the student is not subject to exclusion, termination of enrolment or has been refused the right to re-enrol under Section 1.19.

Students are required to re-enrol by the closing date for lodgement of enrolment forms for continuing students. An enrolment form lodged after the closing date may be accepted at the discretion of the Registrar on payment of a late fee.

1.3 Mailing address

FORM: Change to Enrolment Form or Change of Personal Details Form
SOURCE: Student Administration, Campus Office
SUBMIT TO: Student Administration, Campus Office

A student is required to provide a reliable mailing address for correspondence with the University. A student must promptly notify the University 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.

1.4 Personal information

A student is obliged to provide personal information for statistical purposes as required by the Commonwealth Government.

1.5 Failure to enrol following admission

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 the offer of admission is withdrawn.

1.6 Confirmation of enrolment

Each semester the University provides students with a statement of their current enrolment program. It is the student's responsibility to inform the University of any discrepancy in the statement in accordance with the instructions given.

Failure to correct an inaccurate record may have serious financial, administrative and academic consequences.

1.7 Concurrent enrolment

Concurrent enrolment in two or more QUT courses is permitted except where the total study load in the semester exceeds 48 credit points, in which case the approval of the Course Coordinator of each course is required.

1.8 Change of course

FORM: Change of Course Form (Form I)
SOURCE: Student Administration, Campus Office
SUBMIT TO: Student Administration, Campus Office

Change of course is only approved where the applicant satisfies all the conditions for admission to the new course including having a Selection Score at least equal to the minimum entrance score for the course in the latest admission period.

Currently enrolled students who wish to transfer from one QUT course to another apply as follows:

UNDERGRADUATE COURSES

- (i) if transferring within a faculty or transferring from a combined degree to one of the component degrees, application is made to the University using Change of Course Form (Form I)
- (ii) if transferring between faculties, application must be made to QTAC using QTAC Form B

POSTGRADUATE COURSES

- (i) if transferring within a faculty, application is made to the University using Change of Course Form (Form I)
- (ii) if transferring between faculties, application is made to the University using Postgraduate Admission Form (Form P).

1.9 Attendance type

1.9.1 Full-time students are students who are enrolled for the semester in 75 per cent 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 per cent of the standard credit points for a full-time semester of the course.

1.9.2 External students are students undertaking all subjects in a semester by external study. External students in the Bachelor of Laws course normally reside outside the Brisbane statistical region. For other courses which are offered in an external mode, external students must be resident outside a 15-kilometre radius of the campus(es) from which the course is offered.

1.9.3 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.

1.9.4 Change of attendance type

FORM:	Change to Enrolment Form
SOURCE:	Student Administration, Campus Office
SUBMIT TO:	Student Administration, Campus Office

Where a course is offered in both a full-time and part-time mode, students may change attendance type as a consequence of adding or deleting subjects from their enrolment program for a semester, with the following restriction: Part-time students may change to full-time attendance type in a particular course provided that they have a Selection Score at least equal to the minimum entrance score for the full-time course in the latest admission period, or have been enrolled part-time in the course for four semesters or more.

1.10 Nomination of enrolment program

1.10.1 Maximum/minimum semester load

Except with the approval of the Dean of Faculty, 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 Dean of Faculty, a part-time student shall enrol in a program with credit points totalling at least 35 per cent of the standard credit points for the full-time course.

1.10.2 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.

A Head of School may permit a student to undertake a subject without having passed the specified prerequisites if he or she is satisfied that the student has the appropriate background knowledge necessary for the subject. Where a prerequisite or co-requisite is designated as a repeat-requisite (indicated by the postscript [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 enrolled in the subject. This provision allows for a student to proceed to a subject while repeating its prerequisite.

1.10.3 Right to amend enrolment programs

A Course Coordinator 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

1.11 Change to enrolment program

FORM: Change to Enrolment Form

SOURCE: Student Administration, Campus Office

SUBMIT TO: Student Administration, Campus Office

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.

1.11.1 Addition/substitution of subjects

Students may add subjects to their existing enrolment program up to the end of the second week of semester.

Requests received after the second week of the semester are only approved in exceptional circumstances as determined by the Registrar or relevant Course Coordinator. Addition of subjects after the second week of the semester is subject to the payment of a late fee.

1.11.2 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 or represents a departure from a program prescribed for a student on probation. The consequences of cancellation depend on the date on which cancellation is requested.

For subjects undertaken in the first or second semesters:

- (i) **Cancellation in the first two weeks of the semester:** The subjects are deleted from the student's record.
- (ii) **Cancellation from the third week of the semester to 31 March, in the case of first semester, or 31 August, in the case of second semester:** A status of 'Withdrawn' is recorded against the subjects concerned. A 'Withdrawn' subject is not included in the calculation of the student's GPA.
- (iii) **Cancellation after 31 March or 31 August and before the end of the semester:** A result of 'Withdrawn – Failure' is awarded unless the examiner awards a passing grade on the basis of the assessment undertaken by the student prior to cancellation.

The Registrar, on advice from the faculty, may waive the fail result arising from late cancellation when satisfied that the cancellation was necessitated through medical, compassionate or other exceptional circumstances.

In the case of multise­mester subjects, provisions (i) and (ii) above apply only to the initial semester of the subject. For cancellation at any time in the second or subsequent semester of a multise­mester subject a result of 'Withdrawn – Failure' is awarded.

For subjects undertaken in the Summer School period:

- (i) **Cancellation in the first two weeks of the summer school:** The subjects are deleted from the student's record.
- (ii) **Cancellation after the second week of the summer school:** A result of 'Withdrawn – Failure' is awarded unless the cancellation was caused by medical, compassionate or exceptional circumstances.

1.12 Alternative studies

FORM: Application To Undertake Alternative Studies
SOURCE: Student Administration, Campus Office
SUBMIT TO: Student Administration, Campus Office

Alternative studies refers to a subject or subjects taken either within QUT or from another tertiary institution

- (i) in place of core subjects listed in the course structure
OR
- (ii) as satisfying elective or other requirements where the subject is not listed in a schedule of subjects for such purposes AND where the subject is offered by a faculty other than the one responsible for the course which the student is undertaking.

An application for alternative studies requires the Course Coordinator to approve that the nominated alternative is a valid substitute in terms of the course rules. Where the alternative subject is offered by another QUT faculty, the approval of the Dean of Faculty offering the subject is required.

Where alternative studies involve subjects taken at QUT, the subjects and results will appear on the student's academic record in the normal way. Where the alternative studies are undertaken at another institution, it is the student's responsibility to provide an official statement of results from the other institution. In this case credit for the alternative studies will be given in the form of exemption.

1.13 Deferment of enrolment

Commencing students may be granted deferment of enrolment if requested by the end of the second week of the first semester of enrolment in the course. The period of deferment is until the first semester of the following academic year. Unless otherwise specified, deferment is automatic in undergraduate courses. Deferment is not normally granted for postgraduate courses.

1.14 Leave of absence

FORM: Cancellation/Leave of Absence Form
SOURCE: Student Administration, Campus Office
SUBMIT TO: Student Administration, Campus Office

Students who find that their circumstances necessitate a period of absence from their course may request leave of absence.

For students in undergraduate courses, except where specified in the course rules, approval of leave of absence for periods up to one year is automatic. For periods in excess

of one year or for students in postgraduate courses, leave of absence is subject to approval by the relevant Dean of Faculty.

In cases where leave of absence is granted after 31 March for first semester or 31 August for second semester, 'Withdrawn – Failure' results will be awarded except where the Registrar, on advice from the faculty, is satisfied that the period of leave was necessitated through medical, compassionate or other exceptional circumstances.

At the end of the nominated period, students are sent a form with which to re-enrol. If they do not re-enrol, their period of leave of absence is terminated and their enrolment status is that of a cancelled student.

1.15 Cancellation of enrolment

FORM:	Cancellation/Leave of Absence Form
SOURCE:	Student Administration, Campus Office
SUBMIT TO:	Student Administration, Campus Office

Students may cancel their enrolment in a course at any time. The provisions of Rule 1.11 apply to all subjects for which the student is enrolled in the current semester.

1.16 Re-enrolment following a period of non-attendance

FORM:	Readmission Form (Form R)
SOURCE:	Student Administration, Campus Office
SUBMIT TO:	Student Administration, Campus Office

Students who wish to re-enter the course after a period of absence and who are not returning from leave of absence may apply to do so as follows :

- ☐ if re-entering the first year of an undergraduate course, apply through QTAC
- ☐ if re-entering the second or later years of an undergraduate course, apply to the University using a Readmission Form
- ☐ if re-entering any year of a postgraduate course, apply to the University using a Readmission Form

If the student has been excluded from the course, the provisions of Rule 1.17 apply.

A student who is permitted to re-enrol following a period of absence will 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 will not necessarily retain credit for all subjects completed prior to the absence. The Course Coordinator 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.

1.17 Re-enrolment after exclusion

Students who have been excluded from a course as a result of unsatisfactory academic performance may seek readmission to the course after a period of time. Application for readmission will not be considered until at least two semesters have elapsed since exclusion. Applications require the approval of the Faculty Academic Board.

Application is made directly to the University on a Readmission Form and must be lodged not later than two months prior to the commencement of the semester. The student must submit a written statement in support of the application, which should address such factors as changed circumstances, academic and/or vocational performance since exclusion, maturity and motivation.

1.18 Time limits for completion of courses

Students are expected to progress with minimum interruption towards completion of their course.

Time limits have been established for each type of course and are measured in calendar years from the first day of the first semester in which the student was enrolled. The time limits, inclusive of periods of exclusion, leave of absence or other periods of interruption, are as follows:

Associate diploma courses	7 years
Diploma courses	10 years
3 and 4 year degree courses	10 years
Combined degree courses	11 years
Graduate diploma courses and the in-service Bachelor of Education	4 years
Master degree courses by course work	6 years
PhD and master degree by research and thesis	as per course rules

Students who exceed these limits may be asked to show cause why they should not be excluded from further enrolment in the course.

Students excluded because of failure to complete a course within time limits have right of appeal. See Section 7. Student appeals.

1.19 Sanctions on students who fail to meet obligations

The Registrar acting on the recommendation of an officer authorised by the Vice-Chancellor may impose sanctions on a student who has failed to meet one or more of the following obligations:

- ☐ payment of prescribed fees
- ☐ payment of late fees
- ☐ payment of fines
- ☐ return of Resource Centre/Library materials/Faculty equipment or materials
- ☐ conforming with instructions or essential procedures.

One or more of the following sanctions may be applied:

- (i) withholding of results
- (ii) withholding of transcript of academic record
- (iii) withholding of award certificate
- (iv) loss of right to re-enrol

In lieu of (i) (ii) and (iii) above a statement that the student has completed course requirements may be provided for purposes of seeking employment.

The student will be informed in writing of the application of sanctions. (Refer to Section 5. Review of grades and academic rulings for provisions for appeal against the imposition of sanctions.)

The sanctions will be lifted once the student has discharged the obligation which led to their application.

2. Non-award studies

2.1 Definition

Non-award students are those who have approval to undertake certain subjects from an award course without enrolling in the course itself.

Non-award students receive normal instruction, assessment and examination results in such subjects but are not admitted to undertake a complete award course.

2.2 Categories

There are two categories of non-award students :

- ☐ cross-institution students who undertake QUT subjects for credit towards an award course at an Australian Commonwealth-funded institution
- ☐ visiting students who undertake subjects from award courses for purposes of professional or personal development, or in order to meet course entry requirements.

2.3 Application procedure

Non-award students are required to make application for each semester in which they wish to study. Applicants are responsible for obtaining information on subject availability, suitability of their background and timetables.

An application for enrolment as a non-award 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. An application for enrolment as a non-award student requires the approval of the relevant Dean of Faculty.

2.3.1 Cross-institution student

FORM: Cross-Institution Admission Form (Form X)
SOURCE: QUT Admissions Office
SUBMIT TO: QUT Admissions Office

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.

2.3.2 Visiting student

FORM: Visiting Student Application Form (Form V)
SOURCE: QUT Admissions Office
SUBMIT TO: QUT Admissions Office

An application for admission as a visiting student must be 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.

2.4 Fees for non-award studies

Cross-institution students are required as a condition of their enrolment to make payments under the Higher Education Contribution Scheme, and to pay fees for membership of the QUT Student Guild.

Visiting students are required to pay tuition and other fees as advised by the University.

2.5 Rules relating to non-award studies

Non-award students are subject to the University's student rules generally, with the exception of those relating to academic progress (Section 6).

A visiting student is not permitted to accumulate credits for subjects totalling more than 20 per cent of the credit points of an award course except in special cases approved by the Registrar.

Where a student is excluded from a course, the student is not permitted to enrol as a non-award student in any subject of that course except at the discretion of the Dean of Faculty responsible for the course.

3. Transfer of credit

FORM:	Application for Credit
SOURCE:	Student Administration, Campus Office
SUBMIT TO:	Student Administration, Campus Office

3.1 Policy

Recognition in the form of credit will be given for study, demonstrable expertise and relevant experience, to an extent that is consistent with the maintenance of established academic standards. It is considered to be in the interests of students to facilitate their movement between institutions and between courses of various types and levels. The University has negotiated formal arrangements with a number of institutions concerning the transfer of students and the granting of agreed credit (refer Table 1); where no such arrangement exists, applications will be considered on their individual merits and in the spirit of this policy. The Course Coordinator, in consultation with the lecturer responsible for the subject where appropriate, is responsible for approving applications for credit which are not covered by a formal arrangement.

In making a determination on an application for credit, consideration will be given to the following:

3.1.1 Total credit available

The total credit available is dependent upon the length of course. For courses of up to and including one year of equivalent full-time study, credit may be given for a maximum of one-half of the credit points required for course completion. For courses exceeding one year of equivalent full-time study credit may be granted up to a limit which ensures that the student completes the equivalent of one year of full-time study.

In practice, credit will be approved for all suitable subjects until:

- (i) all suitable subjects have been accounted for; or
- (ii) credit has been awarded up to the total credit available limit.

Situation (i) will apply when the student has completed too little work to reach the total credit available limit, or when sufficient work has been completed but in a different field of study or at a significantly different level.

When situation (ii) occurs the student will be offered the option of accepting this quantity of credit and enrolling in the course or, alternatively, completing the course of the previous institution by means of an agreed upon program of study at QUT as a non-award student. Considerations will include how much credit the student would forfeit by accepting the amount offered, and whether or not a suitable program of study can be devised. The student's previous institution must agree in advance to the program proposed. It is the student's responsibility to secure the agreement of the previous institution.

3.1.2 Recency of previous studies

In determining whether credit can be granted the University must be confident of the currency of the applicant's knowledge. Studies undertaken ten or more years previous to the date of application will not be accepted for credit purposes unless a special case is

made or assessment is given to establish the currency of the applicant's knowledge. Further, in fields where practice and technology is changing rapidly, credit may not be granted where knowledge has become dated.

3.2 Forms of credit

Three alternatives are available:

3.2.1 Specified exemption

Specified exemption will be approved when prior studies, expertise or experience satisfy the objectives and requirements of the subject for which credit is sought.

3.2.2 Unspecified exemption

Where course rules permit, exemption may be given from an unspecified subject on the basis of prior completion of studies judged to be equally acceptable within the structure of the course.

3.2.3 Block exemption

Where course rules permit, block exemption of a fixed number of credit points may be given on the basis of prior completion of studies judged to be equally acceptable within the structure of the course.

Credit may be granted on a provisional basis, in which case the confirmation of the granting of credit is dependent on the student's performance in some specified part of the course.

3.3 Application procedure

3.3.1 Timing of applications

Applicants for admission to a University course who also wish to apply for credit should do so when applying for admission. While all applications will be considered promptly, processing may not be completed before the close of enrolments unless adequate time is allowed. Students already enrolled in a University course may submit an application for credit at any time but should do so well before the commencement of any semester in which the award of credit might affect their subject enrolment.

3.3.2 Documentation

Applicants are responsible for providing an official transcript of results and copies of the outline or syllabus of subjects completed. Before doing so, applicants are encouraged to contact the appropriate Course Coordinator to determine which of their former subjects are likely to be relevant. Undocumented applications will not be considered.

3.3.3 Other requirements

Applicants for credit may be required to attend for interview or to undergo an appropriate form of assessment.

3.3.4 Notification

Decisions on applications for credit will be conveyed in writing by the Registrar.

3.4 Review of credit application decisions

Applicants for credit who are dissatisfied with the outcome of an application may have the decision reviewed and can expect to be provided with a clear indication of the reasons for the University's ruling. The review procedure is set out in Section 5. Review of grades and academic rulings.

4. Assessment

Assessment policy

4.1 Assessment policy

Students will be assessed in accordance with the published assessment policy and practices of the Faculty offering the subject.

4.2 Notification of assessment requirements

In the first two weeks of a subject, students will be advised in writing of assessment requirements for the subject. This statement will provide details of all assessment items, including due dates, and the procedures to be used in determining the final grade.

No subsequent changes to assessment requirements will be made except by mutual agreement between the lecturer responsible for the subject and the students taking the subject, and then only if approved by the relevant Head of School.

Assessment rules

4.3 Availability for examinations

Students must be available throughout periods designated for centrally organised examinations. Examinations may be held between the hours of 8.00 am and 9.00 pm on weekdays, and 8.00 am and 6.00 pm on Saturdays.

4.4 Timetables

Timetables for centrally organised examinations will be released to students no later than two weeks prior to their commencement.

4.5 Student identification

Students must bring into the examination room and keep displayed their Student Identification Card.

4.6 Students to comply with directions

4.6.1 A student shall comply with all directions given by the Examination Supervisor and all Instructions to Candidates set out on the examination materials or displayed in the examination room.

4.6.2 A student's behaviour must not disturb, distract or adversely affect any other student.

4.7 Entering and leaving an examination room

4.7.1 Students who are given permission to enter or leave an examination room shall comply with all conditions on which the permission is given.

4.7.2 Students are not permitted to leave the examination room

- (i) until half the prescribed working time has elapsed
- (ii) during the last fifteen minutes of working time

unless there are exceptional circumstances such as illness.

4.7.3 Students who arrive late and before half the working time of the examination has elapsed will normally be permitted to take the examination. However, no additional working time will be allowed unless exceptional circumstances warrant.

4.8 Unauthorised material not to be brought into the examination room

Students may bring into an examination room only those materials approved for the subject under examination and indicated as such on the examination paper. All other materials are expressly prohibited unless :

- (i) brought into the room with the permission of the Examination Supervisor
- (ii) deposited by the student directly upon entering the examination room at a place stipulated by the Examination Supervisor.

It is inconsequential for this rule that the unauthorised material is not related to the subject under examination.

4.9 Student not to remove papers

A student shall not remove from the examination room any worked scripts or other paper provided for use during the course of the examination (other than the question paper supplied where this is authorised by the Examination Supervisor) or other material which is the property of the University.

4.10 Student not to communicate with others

During an examination a student shall not communicate by word or otherwise with any other person except the Examination Supervisor or examiner.

4.11 Cheating

Students are expected to exhibit honesty and ethical behaviour in undertaking assessment requirements of subjects. Cheating is defined as any fraudulent response whatsoever by students to any item of assessment including any action which may otherwise defeat the purposes of the assessment.

A student shall not cheat or attempt to cheat in any assessment item.

4.12 Plagiarism

A student shall not plagiarise in any item of assessment.

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 appropriately acknowledged :

- ☐ copying the work of another student
- ☐ directly copying any part of another's work
- ☐ summarising the work of another
- ☐ using or developing an idea or thesis derived from another person's work
- ☐ using experimental results obtained by another.

Penalties for breach of assessment rules

4.13 Penalties

4.13.1 If a student breaches Rules 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, or 4.12, the student may be dealt with under the Student Discipline Bylaw.

4.13.2 A student who breaches any of the rules stated in 4.13.1 above shall be liable, in addition to any other penalty, to incur the following penalties:

- (i) the award of a Low Fail result in the subject concerned
- (ii) the award of Low Fail results in all subjects in which the student would have received final results in the same academic semester
- (iii) exclusion from the University for a period
- (iv) expulsion from the University.

4.13.3 Students accused of a breach of the rules will be given the opportunity to show cause why a penalty should not be applied.

4.13.4 A student who has a penalty applied under this rule may appeal to the Academic Appeals Committee. An appeal must state the grounds and reasons for the appeal and must reach the Secretary of the Academic Appeals Committee within 14 days of the date of the letter advising the student of the penalty.

Deferred examinations and special consideration of factors affecting student's performance in assessment

FORM: Application for Deferred Examination/Special Consideration
 SOURCE: Student Administration, Campus Office
 SUBMIT TO: Student Administration, Campus Office

4.14 Deferred examinations

Students who through medical or other exceptional circumstances beyond their control are unable to attend an examination at the prescribed time, or complete an examination, may apply to sit for a deferred examination.

Applications for deferred examinations, including the documentation detailed in Rule 4.16, should normally be submitted prior to or within three days of the examination date, depending on the circumstances.

Normally, deferred examinations are not granted to candidates who misread examination timetables.

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.

Students will receive written notification of the outcome of their application including, where appropriate, the date, time, location and format of the deferred examination.

4.15 Special consideration of factors affecting assessment performance

Students who consider that their performance in an assessment item was adversely affected by illness, or other exceptional circumstances beyond their control, may apply for special consideration.

Applications for special consideration, including the documentation detailed in Rule 4.16, should normally be submitted prior to or within three days of the examination or the submission of the assessment item.

4.16 Documentation required for deferred examination or special consideration

4.16.1 Students 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 the assessment item.

A statement that a student was 'not fit for duty' or was suffering from a 'medical condition' will not be accepted.

4.16.2 Students 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
- affected the student's performance in the assessment item in the case of an application for special consideration.

Students should also supply any corroborative evidence in support of the application.

Grading scale

4.17 Final results

Pass Grades

- 7 High Distinction
- 6 Distinction
- 5 Credit
- 4 Pass
- 3 Low Pass (see footnote)
- or, where approved for use, Satisfactory

Fail Grades

- 2 Fail
- 1 Low Fail
- K Withdrawn – Failure
- or, where approved for use, Unsatisfactory

(Note: A grade of 3 counts as a passing grade for the purpose of completing award requirements and fulfilling prerequisite requirements, except where it is stated in course rules that a higher grade is required. The limit on the number of grades of 3 which may be credited towards an award is specified in Rule 4.22.)

Other Results

- Exempt
- Withdrawn

Final grades awarded after the completion of supplementary assessment will be distinguished on a student's Certificate of Results and on a Statement of Academic Record.

4.18 Unfinalised Results

The following will be recorded when a result is not finalised at the time of release of results :

- | | |
|--------------------------|---|
| Result Unfinalised | - The result will be issued when available |
| Supplementary Assessment | - Student is to undertake supplementary assessment. |

Deferred Examination
Assessment Continues

- Student is to undertake a deferred examination.
- Studies extending over more than one semester.

4.19 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.

The GPA is reported on the Certificate of Results 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.

$$\text{GPA} = \frac{\sum (\text{credit points of subject} \times \text{numeric value of grade})}{\sum (\text{credit points of subject})}$$

Notes:

- ☐ only subjects which are awarded a numeric grade and the result 'Withdrawn – Failure' (which is converted to a numeric grade of 1) are included in the calculation of a GPA
- ☐ unfinalised results are not included in the calculation
- ☐ only QUT subjects are included (not subjects taken at an external institution)
- ☐ only subjects taken after the introduction of the seven-point grading scale are included in the calculation.

Release of results

4.20 Release of results

Following certification by Deans of Faculty, results will be released at the direction of the Registrar.

4.21 Notification of results

A Certificate of Results will be mailed to each student at the end of each semester and after the completion of any Summer School studies.

Passing grades and unfinalised results are published in the press.

Noticeboard lists, containing all results, are placed on University campus noticeboards.

4.21.1 Request for non-publication of results

FORM: Application for Non-publication of Results
SOURCE: Student Administration, Campus Office
SUBMIT TO: Student Administration, Campus Office

Students may request to have their results withheld from public release. Application must be made no later than 30 May for first semester, 30 October for second semester and 31 December for Summer School studies. The request to withhold results from public release will remain in force until specifically revoked by the student.

Graduation

4.22 Eligibility for graduation

Students are eligible to graduate upon completion of course requirements.

A passing grade must be achieved in all subjects set out in the course structure, except that in certain specified subjects a grade of 4 or better must be obtained to satisfy the

course requirements. In addition, Faculty Academic Boards have set a limit on the number of grades of 3 which may be credited towards awards. These limits are specified in Table 2.

5. Review of grades and academic rulings

FORM: Application for Review of Grade or Academic Ruling
SOURCE: Student Administration, Campus Office
SUBMIT TO: Student Administration, Campus Office

5.1 Review of grades

Any student having reason to believe that an error has been made or an injustice done with regard to a final grade in a subject may apply for a review of the grade.

During the course of a semester students should discuss their progress in all course-work exercises (including examinations which form part of progressive assessment) with their lecturers, and can expect to be provided with a clear indication of the extent to which they have or have not achieved the objectives set for each assessment item.

Where, after such discussion, the student believes that an error persists or that the result is not a fair reflection of the student's work, the student may submit an application for review at the end of the semester following notification of the final grade.

5.2 Academic rulings

Students who have received advice of a ruling in regard to an academic matter (for example, amount of credit awarded, cancellation of subjects, amendment of enrolment program), and who wish to be provided with further information on the basis and implications of the ruling, should approach the Student Administration Officer on their campus.

Student Administration Officers will provide available information in response to such a request, or arrange for the student to have other discussions as deemed appropriate in the circumstances.

If, having received such further advice, the student believes that an error has been made or that a ruling is unjust, the student is entitled to submit an application for review.

5.3 Application procedure

Applications must be submitted within fourteen days of the release of the results or mailing of written advice of a ruling.

Applications for a review of a grade attract a fee prescribed by Council which is reimbursed if a higher grade is awarded following the review.

Applications must be accompanied by appropriate information and documentation if available, and must state the specific grounds on which the application for review is based.

5.4 Notification of outcome

Advice of the outcome of reviews will be conveyed in writing by the Registrar.

5.5 Status of students awaiting the outcome of a review or appeal

The University will make determinations on reviews and academic appeals as soon as practicable, but will not necessarily resolve any particular case before the close of enrolments for the next semester.

In this event the student remains bound, pending resolution of the case, by the ruling or by the consequences of the grade which are the subject of the review or appeal, except in special circumstances as may be determined by the Registrar.

6. Unsatisfactory academic performance and exclusion

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. In addition, a single failure in a subject designated as critical to students' progress in the course may result in exclusion.

This policy applies to studies undertaken while enrolled in an award course. Non-award 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.

6.1 Probationary enrolment

A student is placed on probationary enrolment if

- (i) the student fails a subject which has been failed previously, or
- (ii) the student has a Grade Point Average of less than 3.0 in the course in which he or she is enrolled.

For the purpose of this rule a subject is uniquely identified by the subject code. Where a subject code has been changed on administrative grounds, 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 Course Coordinator.

6.2 Terms of probationary enrolment

Students on probationary enrolment are required to enrol as the Course Coordinator directs.

Students placed on probationary enrolment at the end of first semester remain on probationary enrolment for the duration of the following semester. Students placed on probationary enrolment at the end of second semester remain on probationary enrolment for the duration of the following academic year.

If a student cancels his or her 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 cancelled enrolment are counted as one period of probationary enrolment.

6.3 Exclusion

The Faculty Academic Board may exclude a student under the following circumstances:

- (i) at the end of an academic year, the Academic Board may exclude a student who has had, or is eligible for, a second or subsequent period of probation during the year
- (ii) at the end of a semester, the Academic Board may exclude a student who has failed to achieve a satisfactory level of performance in a designated subject.

Designated subjects are indicated in Table 3 and include professional experience subjects, practice teaching subjects, subjects requiring the development of particular skills and

subjects requiring certain personal qualities. A satisfactory level of performance in a designated subject is a grade of 4 (Pass) or higher, or S – Satisfactory, where appropriate.

A student who is eligible under (i) or (ii) above but who is not excluded by the Academic Board is placed on probation.

Exclusion normally applies to the course in which the student was enrolled. An Academic Board may exclude a student from all courses or a specified group of courses offered by the faculty if the student is eligible for exclusion under (i) or (ii) above and either has had at least two periods of probationary enrolment or has been excluded previously from another QUT course.

Academic Committee, on the recommendation of the Academic Board, may exclude a student from all QUT courses if the Academic Board is recommending exclusion from all the faculty's courses and the student has been excluded previously from a course in another faculty.

An excluded student may not enrol as a non-award student in any subjects in the course or courses from which he or she has been excluded except at the discretion of the Dean of Faculty responsible for the course.

Students who are excluded are notified by registered mail. Excluded students have the right of appeal to the Academic Appeals Committee.

6.4 Duration of exclusion and readmission after exclusion

If a student does not appeal against an exclusion decision or if the student's appeal is not successful, the exclusion remains in force for an indefinite period of time and may only be revoked by the decision of the Faculty Academic Board to approve an application for readmission.

An application for readmission will not be considered until at least two semesters have elapsed since exclusion.

The student's application for readmission must be accompanied by a statement which addresses such factors as changed circumstances, academic and/or vocational performance since exclusion, maturity and motivation.

Students re-enrolled after a period of exclusion will be placed on probationary enrolment for the remainder of the academic year.

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 Rule 6.3.

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.

7. Student appeals

A student who has been excluded on the grounds of unsatisfactory academic performance or failure to complete an award within time limits, or who has had a penalty applied because of breach of assessment rules has right of appeal.

7.1 General procedure to lodge an appeal

Appeals are made in writing to the Secretary of the Academic Appeals Committee. Correspondence must include the grounds and reasons for the appeal and must reach the Secretary of the Academic Appeals Committee within 14 days of the date of the letter which advised the student of the exclusion.

7.2 Appeals against exclusion for unsatisfactory academic performance

An appeal against exclusion for unsatisfactory academic performance is referred 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
- ☐ 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.

7.3 Appeal against exclusion for failure to complete a course within time limits

An appeal against exclusion for failing to complete a course within time limits is referred to the relevant 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 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.

7.4 Appeal against the penalty applied for breach of assessment rules

An appeal against exclusion for cheating is referred to the Academic Appeals Committee which determines whether the appeal should be upheld or dismissed. The Committee considers:

- ☐ whether the original penalty was correct under the relevant rules
- ☐ whether procedures were properly carried out
- ☐ the severity or otherwise of the penalty imposed.

8. Higher Education Contribution Scheme

Under the 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.

8.1 HECS Payment Options Form

All students are required to lodge an *HECS Payment Options Form* at the time of their initial enrolment in a course. A new *HECS Payment Options Form* must be lodged when a student changes course or when a student wishes to change HECS payment option. Students concurrently enrolled in more than one course are required to lodge an *HECS Payment Options Form* for each course.

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.

Students who fail to lodge a valid *HECS Payment Options Form* by the first day of the semester of enrolment in their course will have their enrolment cancelled on the grounds that they have not fulfilled the conditions of enrolment.

8.2 Up-front payment option

Students who select the up-front payment option are sent an invoice for the HECS amount to be paid. The calculation is based on the recorded enrolment of the student for the semester on the invoiced date.

A student who fails to pay in full the invoiced amount by the due date will be charged a late fee for the acceptance of the up-front payment or must complete a *HECS Payment Options Form* selecting the deferred payment option and provide a tax file number or a *Tax File Number Application/Enquiry Form*.

Students who fail to take the action specified above will have their enrolment cancelled on the grounds that they have not fulfilled the conditions of enrolment.

8.3 Deferred payment option

Students who select the deferred payment option must provide a tax file number or a *Tax File Number Application/Enquiry Form*.

Student who fail to supply a tax file number or a *Tax File Number Application/Enquiry Form* will have their enrolment cancelled on the grounds that they have not fulfilled the conditions of enrolment.

8.4 Changing HECS payment option

Students may change their HECS payment option by lodging a new *HECS Payment Options Form* by the first day of the semester. The new payment option applies to all future semesters until a further change of payment option is notified.

8.5 The HECS Notice

Following the census date for a semester, students are provided with a HECS Notice setting out their HECS liability for the semester which was determined by their subject enrolment on the census date.

Students have 14 days from the date of the HECS Notice to advise Student Administration of any error in the notice.

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.

Students who fail to pay in full any additional amount will have their enrolment cancelled on the grounds that they have not fulfilled the conditions of enrolment.

9. Student Guild fee rules

9.1 Subject to Rule 9.2, 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.

9.2 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 per cent 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.

9.3 Fees to be paid

Guild fees payable for membership of the Guild shall be the amount approved by QUT Council. Guild fees for both semesters shall be paid in full prior to or at the time of submitting an enrolment form.

9.4 Consequences of non-payment or part-payment

If Guild fees payable by a student have not been paid at the time of lodging an enrolment form, or the student has not notified the Registrar of a conscientious objection as per Rule 9.2, the Registrar may refuse to accept the student's enrolment.

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.

A student who has not paid the full amount of Guild fees due may have his or her enrolment cancelled or may have sanctions imposed as specified in Rule 1.19.

9.5 Refund of fees

A student who cancels enrolment on or before 31 March for first semester or 31 August for second semester shall be entitled to a refund of the Guild fees for that semester. The refund will be made by the university on behalf of the QUT Guild. The student is required to surrender any current QUT Student Card.

10. Miscellaneous student charges

10.1 Guild fees

Full-time students	\$125
Part-time students	\$ 55
External students	\$ 20

10.2 Administrative charges

Late lodgement of application for admission	\$ 20
Late lodgement of enrolment form	\$ 30
Late addition or change to an enrolment program	\$ 20

Review of grade (refundable)	\$ 6 per subject
Statement of Academic Record (graduating students may receive one free)	\$ 5
Reissue of ID Card	\$ 5
Late collection of ID card	\$10
Reissue of Award Certificate	\$40
Reissue of receipt for fees paid	\$ 5
Late fee for up-front HECS payment	\$50
Reissue of Notice of HECS liability	\$ 5

10.3 Deposit system for use of laboratory facilities

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.

The student shall be required to pay only one deposit irrespective of the number of such subjects included in an enrolment.

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.

TABLE 1: Formal arrangements for credit transfer

Course of study on which application for credit is based	Credit granted in QUT course
TAFE courses in Built Environment area	
CNJ74 Associate Diploma of Applied Science – Architectural Technician	ARJ192 Bachelor of Architecture Block exemption Semesters 1 and 2 BTJ227 Bachelor of Applied Science – Built Environment Block exemption Semester 1
CNJ45 Associate Diploma of Applied Science – Building	BGJ201 Bachelor of Applied Science – Construction Management Exemption from subjects: BGB151, BGB152, BGB251, BGB141, BGB241, BGB242, BGB243, BGB340, BGB345, BGB405, MAB297, CMB134, SVB101
TAFE courses in Business Studies area	
Associate Diploma of Business	Bachelor of Business (Gardens Point campus)
CNJ13 General	ACJ151 Accountancy
CND71 Accountancy	CMJ153 Communication
CND25 Computing	MNJ152 Management
CND74 Management	MNJ154 Public Administration
CND93 Marketing	MNJ179 Health Administration
CND97 Purchase & Supply	
CND99 Transport Administration	
CNC54 Operations Management	
CNL04 Aboriginal & Torres Strait Islander Administration	
	The Faculty of Business must accredit individual programs before granting credits. However, the Faculty may give exemptions to the extent of one year of full-time study drawn from either core, specialist or elective subjects. Credit may not be claimed for more than half of the specialist/major area. The granting of any exemption will be conditional upon the meeting of any prerequisite material contained in other subjects.
	Bachelor of Business – Accounting major (Kedron Park campus) Credit will be given for one BBus subject for each 3-4 AssocDip subjects successfully completed.

TAFE courses in Computing/ Information Management area

CND25 Associate Diploma of Business
– Computing including subjects:

TSM128, 892, 893, 856
TSM167, 886, 888

CNE70 Diploma of Applied Science –
Computing, including subjects:
ADA500, ADC110, ADC140, ADC545,
ADC120, ADC350, ADC150, ADC580,
ADC240, ADC260, ADC350, ADC341,
ADC450, ADC561, ADC526, ADC560

ISJ210 Bachelor of Business –
Computing

CSJ128 Bachelor of Applied Science –
Computing
Block exemption from all subjects of the
Common First Year

ISJ243 Bachelor of Business –
Information Management
Block exemption from all subjects of the
Common First Year except ISB113

ISJ210 Bachelor of Business –
Computing
Credit will be given for all Common
First Year subjects, plus ISB201,
ISB202, ISB270, MNB405, ISB313,
INB201, plus a 9 credit point general
elective on the basis of other CNE70
core subjects.

TAFE courses in Engineering area

Associate Diploma of Engineering

CN548 Coal Mining
CN420 Electrical & Electronics
CNG61 Electrical Systems
CN759 Mechanical

Bachelor of Engineering

CEJ156 Civil Engineering
EEJ157 Electrical Engineering
MEJ158 Mechanical Engineering

Application will have to be made for
credit for individual subjects but in
general, exemptions will be given for up
to one full-time year of study.

TAFE Preparatory courses

CN649 Engineering Bridging Course
(completion of bridging course
guarantees entry to engineering associate
diploma at QUT)

CEL187 Associate Diploma in Civil
Engineering
Exemption from subjects MET120,
MET141, CET135, CET255, MET601
plus one other, depending on attendance
mode

EEL188 Associate Diploma in Electrical
Engineering
Exemption from subjects MET101,
MET600, MET601, MET201, CST390,
EET111, EET211

MEL189 Associate Diploma in
Mechanical Engineering
Exemption from subjects MET120,
MET220, MET140, MET250, MET210,
MET310

TAFE courses in Science area

Associate Diploma of Applied Science

CN440 Geology

CN654 Primary Metallurgy

CN758 Sugar Technology

CNK82 Hydrology

Bachelor of Applied Science

ASJ226 Bachelor of Applied Science with majors in biology, chemistry, biochemistry, microbiology, geology, mathematics, physics

Credit may be given for the equivalent of one year of full-time study. Exemption will be on a subject by subject basis.

TAFE course in Child Care

Associate Diploma in Child Care

Diploma of Education – Child Care
Graduates of TAFE course receive one year's credit.

TAFE course in Welfare

Associate Diploma in Community Welfare

Associate Diploma in Residential Care

Bachelor of Social Science

Graduates receive one year's credit.

TAFE course in Art

Associate Diploma of Arts

Bachelor of Arts – Visual Arts

Credit of up to one year will be granted on an individual basis to apply to the second and third year of study. Successful applicants will be required to undergo the Foundation Year of the course.

Bachelor level Science course at other recognised institution (partial completion)

ASJ226 Bachelor of Applied Science
CHJ129 Bachelor of Applied Science – Applied Chemistry
MAJ133 Bachelor of Applied Science – Mathematics

Application for credit will be considered individually on its merits; in general, credit will be granted pro rata; for example, 96 credit points of credit normally will be granted for each year if full-time study completed successfully, up to a maximum of 192 credit points.

Associate Diploma in Science from a recognised institution (successful completion of course)

ASJ226 Bachelor of Applied Science
CHJ129 Bachelor of Applied Science – Applied Chemistry
MAJ133 Bachelor of Applied Science – Mathematics

Credit may be granted to a maximum of 96 credit points. This credit will be granted provisionally. Confirmation of the credit requires the completion of at least 48 credit points of study in the degree level course with a Grade Point Average of not less than 4.0.

Bachelor of Applied Science – Computing (UCCQ)
Bachelor of Applied Science – Computing (GCCGU)
Bachelor of Applied Science – Computing (QUT, Gardens Point)
Bachelor of Business – Computing (QUT, Gardens Point)

Bachelor of Applied Science – Computing (Kedron Park)*

Bachelor of Arts – Drama major (UQ)

Bachelor of Arts – Drama*

Bachelor of Music (UQ)
Bachelor of Music (QCM)
Bachelor of Arts – Music (QCM)

Bachelor of Arts – Music*

Bachelor of Creative Arts – Visual Arts (UCSQ)
Bachelor of Arts – Visual Arts (QCA)

Bachelor of Arts – Visual Arts*

Bachelor of Business – Accounting (UCCQ)
Bachelor of Business – Accounting (UCSQ)
Bachelor of Business – Accounting (GCCGU)
Bachelor of Business – Accountancy (QUT, Gardens Point)
Bachelor of Commerce (JCUNQ)
Bachelor of Commerce (UQ)
Bachelor of Administration – Accounting (GU)

Bachelor of Business – Accounting major (Kedron Park)*

Bachelor of Administration (GU)

Bachelor of Business – Administration & Management major

Bachelor of International Business (GU)

Bachelor of Business – Asian Studies major*

* Students transferring between these courses can expect to receive credit on a one-for-one basis for most, or all, of their previous study up to the maximum credit limit specified in QUT's policy on Transfer of Credit, Rule 3.1.1.

Bachelor of Business – Business Computing (UCCQ)
 Bachelor of Business – Commercial Computing (UCSQ)
 Bachelor of Business – Computing (GCCGU)
 Bachelor of Business – Computing (QUT, Gardens Point)
 Bachelor of Administration – Information Systems (GU)

Bachelor of Business – Computing major (Kedron Park)*

Bachelor of Business – Management (QUT, Gardens Point)
 Bachelor of Business – Marketing Management (UCCQ)
 Bachelor of Business – Marketing (UCSQ)

Bachelor of Business – Computing*

Associate Diploma of Computing (UCCQ)
 Associate Diploma of Business – Computing (TAFE)

Associate Diploma of Business – Computing*

Bachelor of Education (In-service) (UCCQ)
 Bachelor of Education (In-service) (UCSQ)

Bachelor of Education – In-service*

Bachelor of Education (Pre-service) (JCUNQ)
 Bachelor of Education (Pre-service) GU

Bachelor of Education – Secondary (Pre-service)*

Legend: Codes for other Institutions

GU	Griffith University
JCUNQ	James Cook University of North Queensland
UCCQ	University College of Central Queensland
UCSQ	University College of Southern Queensland
GCCGU	Gold Coast College of Griffith University
QCM	Queensland Conservatorium of Music
QCA	Queensland College of Art
QUT	Queensland University of Technology
UQ	University of Queensland

* Students transferring between these courses can expect to receive credit on a one-for-one basis for most, or all, of their previous study up to the maximum credit limit specified in QUT's policy on Transfer of Credit, Rule 3.1.1.

TABLE 2: Eligibility for graduation – limits on grades of 3***Gardens Point Campus**

All courses

< 12% of the total course credit points

Northern Campuses

Master of Arts – Drama	0
Master of Business	0
Master of Education – Mathematics Education	1
Master of Education – Leadership	0
Master of Education – Research	0
Graduate Diploma of Business	
– Administration	1
– Industrial Relations	1
– Information Systems	1
– Professional Accounting	1
Graduate Diploma of Education	
– Early Childhood Teaching	1
– Primary Teaching	1
– Secondary Teaching	1
– Computer Education	1
– Curriculum Studies	1
– Early Childhood	1
– Music	1
– Resource Teaching	1
– Teacher-Librarianship	-
Graduate Diploma of Health Science – Health Education	1
Graduate Diploma of Social Science – Counselling	1
Graduate Certificate of Education – TESOL	1
Bachelor of Applied Science	
– Computing	3
– Home Economics	3
Bachelor of Arts	
– Dance	3
– Drama	3
– Justice Studies	
– Music	3
– Visual Arts	3
– Honours Program	0
Bachelor of Business	3
Bachelor of Education – Secondary	3
Bachelor of Education (In-service)	1
Bachelor of Social Science	3
Bachelor of Teaching – Primary	3
Bachelor of Teaching – Early Childhood	3
Diploma of Education	
– Child Care	3
– Early Childhood	3
– Primary	3
– Secondary	3
Associate Diploma of Applied Science – Textiles	3
Associate Diploma of Arts – Dance	1
Associate Diploma of Business	
– Computing	2

< 12% of the total course credit points

– Court & Parliamentary Reporting	2
– Industrial Relations	2
Associate Diploma of Social Science	
– Community Welfare	4
– Residential Care	2

* *Note: Academic Boards may specify that in certain subjects a grade of 4 or better must be obtained in order to satisfy course requirements.*

TABLE 3: Exclusion – designated subjects

		Credit Points	Contact Hrs/Wk
Graduate Diploma of Education – Early Childhood Teaching			
PT4921	Practice Teaching 1	10	-
PT4922	Practice Teaching 2	10	-
Graduate Diploma of Education – Primary Teaching			
PT4900	Practice Teaching 1	12	-
PT4901	Practice Teaching 2	12	-
Diploma of Education – Child Care			
PT2947	Programs for Young Children 0-12 years	5	-
PT2948	Programs for Infants and Toddlers 0-3 years	5	-
PT2949	Programs for Children 0-3 years	10	-
PT2950	Programs for Children 3-5 years	10	-
PT2951	Field Project (Children 0-5 years)	15	-
PT2952	Elective Programs (Children 0-12 years)	15	-
Bachelor of Education – Secondary			
PT3000	Integrated Field Studies 1	10	-
PT3001	Integrated Field Studies 2	30	-
PT3002	Integrated Field Studies 3	10	-
PT3003	Integrated Field Studies 4	30	-
Diploma of Education – Early Childhood			
PT2917	Practice Teaching: Early Childhood	5	-
PT2918	Practice Teaching: Pre-school 1	5	-
PT2919	Practice Teaching: Pre-school 2	10	-
PT2920	Practice Teaching: School 1	10	-
PT2921	Practice Teaching: School 2	15	-
PT2922	Practice Teaching: Pre-school 3	15	-
Diploma of Education – Primary			
PT2911	Practice Teaching	10	-
PT2912	Practice Teaching	10	-
PT2913	Practice Teaching	10	-
PT2914	Practice Teaching	10	-
PT2915	Practice Teaching	10	-
PT2916	Practice Teaching	10	-
Diploma of Education – Secondary			
PT2900	Practice Teaching 1	10	-
PT2901	Practice Teaching 2	25	-
PT2902	Practice Teaching 3	30	-
Bachelor of Arts – Music			
MU3065	Practical Studies A1	15	2
MU3067	Practical Studies A2	15	2
MU3069	Practical Studies A3	15	2
Bachelor of Arts – Visual Arts			
ME3012	Foundation Media Study 1	30	18
ME3001	Foundation Media Study 2	30	18
ME3002	Advanced Media Study 1	30	18
ME3003	Advanced Media Study 2	20	12
ME3004	Advanced Media Study 3	30	18
ME3005	Advanced Media Study 4	20	8

Associate Diploma of Arts – Dance

DA1100	Classical Main Study 1	12	8
DA1101	Contemporary Basic Study 1	8	3
DA1104	Repertoire 1	5	2
DA1114	Repertoire 2	5	3
DA1142	Contemporary Main Study 2	12	6
DA1143	Classical Basic Study 2	8	5
DA1121	Contemporary Dance 1	10	7.5
DA1122	Repertoire 3	5	3
DA1135	Classical Ballet 1	15	9
DA1126	Classical Ballet 2	10	7.5
DA1128	Repertoire 4	5	3
DA1137	Contemporary Dance 2	15	8

POLICY STATEMENTS

Articulation between QUT and Queensland TAFE courses

The growth of the tertiary sector in Queensland depends on continuing to educate people who can contribute to the needs of society. Associate Diploma students from TAFE and other tertiary institutions, as well as certain TAFE Certificate students, are encouraged to continue their studies at degree and diploma level at QUT. To ensure that prior studies are given adequate recognition, QUT has reviewed its policies on both the admission of and exemptions given to TAFE applicants. The review process is dynamic and both Queensland TAFE and QUT will continue to monitor the progress of students admitted to QUT courses and the credit given to such students based on previous TAFE studies.

Entry to QUT

All applicants must apply through the Queensland Tertiary Admissions Centre by the closing date. Entry to all QUT courses is on the basis of competition and quota restrictions apply equally to Year 12 students, Certificate and Associate Diploma holders. QUT publishes tables in its Admission Procedures booklet that indicate the Selection or Notional Tertiary Entrance Score that will be given to applicants with Certificate and Associate Diploma studies. These tables are based on performance: the better the grades achieved, the better the chance applicants have of negotiating QUT quotas.

Entry is also dependent upon applicants having appropriate prerequisite subjects within their background. This means that, for example, an applicant for a degree in engineering at QUT usually would have appropriate prerequisites if the previous course of study was in the field of engineering, but would not necessarily meet the prerequisites by holding an Associate Diploma in Business. The engineering Associate Diploma holder would usually be eligible for a degree in business at QUT, as would usually the holder of an Associate Diploma in Business. In any case, placement in the QUT course would still be dependent upon being accepted within the quota. The quota cut-off level of the previous year's intake is published in the University's Admission Procedures booklet.

Credit for previous TAFE Associate Diploma

Once a student has gained a place in the quota through QTAC, credit is given to the student based on previous study. QUT Faculty Boards have looked at TAFE Associate Diploma syllabi and have determined appropriate levels of credit from QUT courses based on the content of the TAFE subjects. Initially, credit will only apply to applicants who have completed all of the TAFE course. QUT Faculties have adopted varying attitudes towards the amount of credit that will be given for previous courses and as indicated above, the level of credit will be reviewed over time.

Specific credit given at QUT for completed TAFE courses

Specific credit given at QUT for completed TAFE courses is set out in Table 1 on pages 132-136.

Confidentiality of student records

The University is required to have on record a variety of factual information about students both for internal use in connection with its academic program and for the compilation of statistical reports to meet the requirements of such external bodies as the Department of Employment, Education and Training.

The Registrar is the official custodian of such records and is responsible to the Vice-Chancellor for their proper maintenance and control.

Information required by outside bodies is normally of a statistical nature and does not identify individual students – eg admission and enrolment statistics, TE Score distributions, age distributions, patterns of origin by school or residential district, full-time/part-time ratios, attrition rates etc. However, information held on individual students may include details of a personal nature which students may quite reasonably expect the University to maintain as confidential except for legitimate internal purposes – eg age, address, telephone number, title, medical information, references etc. The University has no need for and will not maintain records relating to the religious or political affiliations and activities of students except insofar as such information may be voluntarily included in correspondence from the student or in references supplied by persons at the student's request.

The University accepts that general principles of confidentiality and privacy should apply to the use or availability of its records on individual students. These imply that the University will not normally make available externally particular information on a student without specific authorisation by that student, unless it is legally required to do so. Exceptions to this policy will be restricted to situations in which the release of information is judged to be in the clear interest of the student – eg provision of a telephone number or address to a hospital when a relative has been involved in an accident.

Information from a student's personal files will be available internally to faculties and individual staff members on the basis of a demonstrated need in connection with the academic program. Its release from the Student Administration Office must be authorised by the Registrar acting within the spirit and intent of this policy, on the understanding that staff members using the information will also adhere to its intent.

In addition to being provided at regular intervals with information on academic performance, students shall be entitled to have access to their personal files which will contain forms, correspondence, results statements and any other items relating to each student. Access will be available only at Student Administration Offices and the student will be under supervision while perusing the file. The file may not be removed from the office. No student may have access to another student's personal file, or to information from such a file or computer record.

Each semester the University publishes students' results in the press and on University noticeboards. Students who would prefer that their results are not published in the press or displayed by name on University noticeboards have the right to request that their academic records remain confidential. The request to withhold results from public release will remain in force until specifically revoked by the student.

It is the responsibility of the Registrar to provide a student with copies of his or her official University transcript on request for use at the student's discretion – eg in connection with job applications or applications for admission to another educational institution, or to forward such transcripts when authorised in writing by the student to do so. Should the Registrar of another institution to which a student is seeking admission formally request a copy of the student's academic record, its transmission will be assumed to be authorised

by the student. Official University transcripts may only be provided to other individuals, employers or agencies outside the University upon the written authorisation or request of the student, addressed to the Registrar.

Staff members who are asked to provide references for students should refer to the fact that official transcripts are available only through Student Administration Offices, but inasmuch as they have been asked by the students to comment on general academic performance and other attributes they are clearly free to do so.

University Medals*

1. Academic Committee may award medals known as Queensland University of Technology Medals to graduates of certain courses as defined in 2 below, who have achieved an exceptionally high level of performance in their studies. For the award of a medal, a student should have reached a distinguished academic standard based on Grade Point Average in all subjects and in the thesis where such is required. The standard should be at a higher level than would normally be expected from an excellent candidate. The medal should be testimony that the recipient not only shows exceptional academic promise at the time of the award, but also exhibits a distinguished record of achievement throughout the whole of the degree.
2. Eligibility to be considered for the award of a University Medal will be limited to:
 - (i) graduates of honours degrees where the student's performance in the related bachelor degree is also taken into account;
 - (ii) graduates of degrees with honours; or
 - (iii) graduates of bachelor degrees of at least three years' normal duration where no honours award is available.

In completing one of the above awards, graduates must have been enrolled at QUT for at least two years of full-time study or equivalent.

3. Power to recommend graduates for the award of University Medals resides with Faculty Academic Boards; in making such a recommendation Faculty Academic Boards are required also to submit:
 - (i) the academic records of the students recommended;
 - (ii) the academic records of the other students considered;
 - (iii) a statement supporting the recommendation.
4. Academic Committee may make determinations from time to time concerning the number of medals which may be awarded in an academic year or the ratio of medals to the number of eligible graduates.

* *Applicable to students who complete courses at the end of Semester 1, 1991 and subsequently.*

3

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UNIVERSITY-WIDE AND INTERFACULTY COURSES

UNIVERSITY-WIDE AND INTERFACULTY COURSES

Course Structures

■ Doctor of Philosophy (IFN249)

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 candidate, and that accommodation, equipment and access to library and computing facilities meet the needs of the approved course of study.

8. Thesis

- 8.1 The thesis must be presented in accordance with the requirements of the Council, including any accompanying declarations (see Section 1).
- 8.2 Except with the specific permission of the Research Management Committee, the thesis must be presented in the English language. Such permission must be sought at the time of application for registration, and will not be granted solely on the grounds that the candidate's ability to satisfy the Examination Committee will be affected adversely by the requirement to present the thesis in English.
- 8.3 The thesis must include a statement of the objectives of the investigation, and must acknowledge published or other sources of information, together with any substantial financial assistance received.
- 8.4 Where a candidate's research program forms part of a collaborative group project, the thesis must indicate clearly the candidate's individual contribution and the extent to which co-workers contributed to the candidate's program.
- 8.5 Subject to QUT's Intellectual Property policy, the copyright of the thesis is vested in the candidate.
- 8.6 Where a candidate or the sponsoring establishment wishes the thesis to remain confidential for a period of time after completion of the work, application for approval must be made to the Research Management Committee when the thesis is submitted. The period normally shall not exceed two years from the date on which

the Examination Committee recommends acceptance of the thesis, during which time the thesis will be held on restricted access in the QUT Library.

9. Examinations

- 9.1 Any fees payable in relation to the examination of a candidate shall be determined by the Council.
- 9.2 In order to determine whether the thesis is acceptable for examination by the Examination Committee, and subject to the provisions of Section 9.3, the candidate shall be examined orally by the faculty to which 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).
- 9.4 The thesis shall normally be examined by an Examination Committee comprising at least two external examiners and not more than one internal examiner. The internal examiner normally shall chair the Committee. If there is no internal examiner, then the Research Management Committee shall appoint a chairperson.
- 9.5 Subject to agreement between supervisors and not later than six months before the proposed date for the submission of the thesis, the Principal Supervisor is required to recommend to the Research Management Committee the composition of a proposed Examination Committee, together with the title of the candidate's thesis.
- 9.6 Four copies of the thesis in the required format must be presented to the Research Management Committee together with certification that the approved course of study has been completed and the thesis accepted by the faculty to which the candidate is attached (see Section 9.2). Receipt of the thesis by the Research Management Committee shall constitute the submission of the candidate's thesis for examination.
- 9.7 The candidate's Principal Supervisor shall forward arrangements for examination of the thesis through the faculty to the Research Management Committee for approval.
- 9.8 In exceptional circumstances, the Research Management Committee may act directly to make suitable arrangements for the examination of a candidate, including the selection of examiners.
- 9.9 Normally, examiners must agree to read and report upon the thesis within two months of its receipt.
- 9.10 The external examiners must be independent of both the 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 in fulfilment of the conditions for the award of the PhD degree. A copy of the thesis, together with the certification by the faculty examiners and the Examination Committee, will then be lodged in the QUT Library. A copy will be sent at the same time to the sponsoring establishment, if any.
- 9.16 If the examiners cannot reach agreement, they shall submit separate reports and recommendations to the Research Management Committee. 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.
- 9.17 A candidate who fails to satisfy the Research Management Committee at the first attempt may, on the recommendation of the examiners and with the approval of the Research Management Committee, be re-examined not more than once. Application must be made to the Research Management Committee for approval of the re-examination arrangements.
- 9.18 Re-examination shall take place within 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 and Thesis

This research program is available in:

- ☐ the Faculty of Built Environment and Engineering (BTN184)
- ☐ the Faculty of Health (HSN184)
- ☐ the Faculty of Information Technology (INN184)

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

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.

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 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
 - ☐ 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:
- ☐ a program of assessed coursework
 - ☐ participation in University scholarly activities such as research seminars, teaching and publication
 - ☐ regular face-to-face interaction with supervisors, and
 - ☐ a program of supervised research and investigation.
- 3.4 Coursework at masters level demands a capacity for critical analysis and a specialisation of research interests not normally appropriate for an undergraduate program. Such coursework may be conducted in a number of ways:
- ☐ as advanced lecture courses
 - ☐ as seminars in which faculty and students present critical studies of selected problems within the subject field
 - ☐ as independent study or reading courses, or
 - ☐ as research projects conducted under faculty supervision.

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

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

- 3.6 An application for registration should set out systematically and fully the candidate's intended course of study. The description should include the area of study within which the candidate's course lies, the coursework to be undertaken, the proposed title of the thesis to be written, the aim of the proposed program of research and investigation, its background, the significance and possible application of the research program, and the research plan.

4. Period of Time for Completion of Course of Study

- 4.1 A full-time graduate student (provisional) shall not be eligible for confirmation of registration as a graduate student until a period of at least 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.

■ Graduate Diploma in Quality (IFM242)

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

Location: Gardens Point campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: 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)
Year 1, Semester 1				
MEP173	Quality Control Planning	6	3	1-7
MNP112	Quality System Management	6	3	1-7
MAP111	Statistical Methods in Quality	6	3	8-14
MNP113	Managing Communications for Quality	6	3	8-14

Year 1, Semester 2

MEP273	Quality Measurement & Testing	6	3	1-7
MAP121	Statistical Process Control	6	3	1-7
ACP213	Quality Cost Analysis	6	3	8-14
MNP123	Human Factors in Quality	6	3	8-14

Year 2, Semester 1

MAP211	Sampling Procedures	6	3	1-7
MNP218	Economic Analysis	6	3	1-7
MEP371	Reliability & Maintainability	6	3	8-14
ISP380	Quality Informations Systems	6	3	8-14

Year 2, Semester 2

MEP473	Quality Systems & Assessment	8	2	1-14
MAP221	Quality Problem Solving Techniques	8	2	1-14
IFP222	Project	8	2	1-14

■ Bachelor of Engineering/Bachelor of Applied Science – Electronics and Computing (IFJ222)

Location: Gardens Point campus

Course Duration: 5 years full-time, 7 years part-time

Total Credit Points: 467

Standard Credit Points/Full-Time Semester: 46.7

Course Coordinators: Dr Dayal Abeyasekera, Dr Joaquin Sitte

Professional Recognition

This course is accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society. The course also satisfies academic requirements for membership of the Institution of Engineers, Australia, and the Institution of Radio & Electronics Engineers, Australia.

Special Course Requirement

All students shall have engaged in a total of at least fifteen weeks in employment approved by the Coordinator 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 Coordinator on the appropriate industrial experience record form completed by both the student and employer.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
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

* Subject extends over two semesters.

Year 1, Semester 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
INB130	Practice IB (IFJ222)	6	2
INB180	Practice IIB (IFJ222)	6	2
EEB901	Industrial Experience I		5 weeks

Year 2, Semester 1

MAB493	Engineering Mathematics II*	6	3
EEB303	Network Theory I	7	3
EEB361	Signals & Systems	7	3
CSB200	Foundations of Computing I	9	3
EEB371	Electronic Devices	5	3
EEB372	Sequential Logic	7	3
EEB302	Electrotechnology	6	3
INB225	Practice IIIA (IFJ222)	6	2

Year 2, Semester 2

MAB493	Engineering Mathematics II*	6	3
EEB401	Network Theory II	6	3
EEB471	Electronics	7	3
EEB561	Analogue Communications	6	3
EEB472	Microprocessors	6	3
CSB213	Scientific Applications	9	3
CSB210	Foundations of Computing II	9	3
INB275	Practice IVA (IFJ222)	6	2
EEB902	Industrial Experience II		5 weeks

Year 3, Semester 1

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
EEB520	Control Engineering	6	3

Year 3, Semester 2

CSB212	Languages & Language Processing	9	3
EEB602	Signal Processing	6	3
EEB661	Information Theory & Noise	6	3
MAB894	Engineering Mathematics IV	6	3
CSB301	Operating Systems	9	3
EEB620	Control Systems Analysis	6	3
INB281	Practice IVB (IFJ222)	6	2
EEB903	Industrial Experience III		5 weeks

Year 4, Semester 1

CSB302	Software Engineering	9	3
EEB968	Digital Signal Processing	7	3
EEB967	Digital Communications	6	3
EEB788	Design II	8	3
EEB821	Production Technology & Quality	6	3
EEB971	Applied Electronics	6	3

* Subject extends over two semesters.

Year 4, Semester 2

EEB601	Realtime Operating Systems	6	3
EEB430	Engineering Fields	6	3
EEB621	Advanced Control Systems	6	3
EEB887	Design III	6	3
EEB820	Engineering Management	8	3
CSB311	Advanced Computer Architectures	9	3

Year 5, Semester 1

EEB789	Project*	15	6
EEB562	Transmission & Propagation	6	3
	ONE Computing Elective Subject	9	3
	ONE Electrical Elective Subject	7	3

Year 5, Semester 2

EEB888	Design IV	10	3
EEB789	Project*	15	6
	ONE Computing Elective Subject	9	3
	ONE Electrical Elective Subject	7	3

Electrical Electives

EEB761	Statistical Communication	7	3
EEB922	Computer Controlled Systems	7	3
EEB961	Communication Techniques	7	3
EEB962	Microwave Systems Engineering	7	3
EEB972	Integrated Electronic Techniques	7	3
MAB920	Coding & Encryption Techniques	12	3

Computing Electives

CSB320	Special Studies	9	3
CSB321	Graphics	9	3
CSB323	Data Security	9	3
CSB324	Artificial Intelligence	9	3
CSB325	Expert Systems	9	3
ISB201	Information Systems Analysis & Design I	9	3
ISB202	Database & Procedural Languages	9	3
ISB210	Information Systems Analysis & Design II	9	3

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

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
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

Year 1, Semester 2

MAB193	Engineering Mathematics I*	6	3
EEB203	Circuit Analysis	5	3
PHB232	Engineering Physics IIA	6	3
CSB101	Computer Systems	9	3
INB180	Practice IIB (IFJ222)	6	2
EEB272	Digital Principles	3	1.5
EEB901	Industrial Experience I		5 weeks

* Subject extends over two semesters.

Year 2, Semester 1

MAB493	Engineering Mathematics II*	6	3
EEB303	Network Theory I	7	3
CSB200	Foundations of Computing I	9	3
ISB102	Representation of Information	9	3
INB225	Practice IIIA (IFJ222)	6	2
EEB302	Electrotechnology	6	3

Year 2, Semester 2

MAB493	Engineering Mathematics II*	6	3
CSB110	Programming Principles	9	3
EEB401	Network Theory II	6	3
CSB213	Scientific Applications	9	3
INB130	Practice IB (IFJ222)	6	2
INB275	Practice IVA (IFJ222)	6	2
EEB902	Industrial Experience II		5 weeks

Year 3, Semester 1

EEB361	Signals & Systems	7	3
EEB371	Electronic Devices	5	3
EEB372	Sequential Logic	7	3
MAB893	Engineering Mathematics III	6	3
CSB210	Foundations of Computing II	9	3

Year 3, Semester 2

EEB471	Electronics	7	3
EEB472	Microprocessors	6	3
EEB561	Analogue Communications	6	3
MAB894	Engineering Mathematics IV	6	3
EEB903	Industrial Experience III		5 weeks

Year 4, Semester 1

CSB201	Computing Systems II	9	3
EEB591	Systems Programming Languages	6	3
EEB573	Industrial Electronics	6	3
EEB587	Design I	6	3

Year 4, Semester 2

EEB473	Integrated Circuits	6	3
EEB602	Signal Processing	6	3
CSB212	Languages & Language Processing	9	3
INB281	Practice IVB (IFJ222)	6	2
CMB108	English for Technologists	6	3

Year 5, Semester 1

CSB301	Operating Systems	9	3
EEB520	Control Engineering	6	3
CSB302	Software Engineering	9	3
EEB661	Information Theory & Noise	6	3

Year 5, Semester 2

EEB620	Control Systems Analysis	6	3
EEB967	Digital Communications	6	3
EEB621	Advanced Control Systems	6	3
CSB311	Advanced Computer Architectures	9	3
EEB430	Engineering Fields	6	3

Year 6, Semester 1

EEB562	Transmission & Propagation	6	3
EEB788	Design II	8	3

* Subject extends over two semesters.

EEB821	Production Technology & Quality	6	3
	ONE Computing Elective Subject	9	3
Year 6, Semester 2			
EEB601	Realtime Operating Systems	6	3
EEB887	Design III	6	3
EEB820	Engineering Management	8	3
EEB971	Applied Electronics	6	3
	ONE Computing Elective Subject	9	3
Year 7, Semester 1			
EEB968	Digital Signal Processing	7	3
EEB789	Project* (Electronic Systems Engineering)	15	6
	ONE Electrical Elective Subject	7	3
Year 7, Semester 2			
EEB888	Design IV	10	3
EEB789	Project* (Electronic Systems Engineering)	15	6
	ONE Electrical Elective Subject	7	3

■ Bachelor of Business – Accountancy/Bachelor of Laws (IFJ223)

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 562

Standard Credit Points/Full-Time Semester: 56.2

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ACB110	Accounting I	12	4
MAB173	Quantitative Methods	12	3
MNB151	Microeconomic Analysis	12	3
LWB101	Introduction to Law*	12	3
LWB104	Legal Research & Writing I*	4	1
Year 1, Semester 2			
ACB115	Accounting II	12	4
ISB392	Business Computing	12	4
MNB252	Business Statistics	12	3
LWB101	Introduction to Law*	12	3
LWB104	Legal Research & Writing I*	4	1
Year 2, Semester 1			
ACB212	Company Accounting	12	4
ISB492	Computerised Accounting Systems	12	4
MNB251	Macroeconomic Analysis	12	3
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
Year 2, Semester 2			
ACB220	Cost Accounting	12	4
ACB230	Financial Management I	12	4

* Subject extends over two semesters.

MNB412	Management & Organisations	12	3
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3

Year 3, Semester 1

ACB321	Managerial Accounting	12	4
ACB331	Financial Management II	12	4
ACB311	Auditing	12	3
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	3

Year 3, Semester 2

ACB310	Accounting Theory & Practice	12	4
	Accounting Elective		
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	3
	One Law Elective Subject	8-12	2-3

Year 4, Semester 1

LWB201	Land Law*	12	3
LWB301	Equity*	12	3
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law Elective Subject	8-12	2-3

Year 4, Semester 2

LWB201	Land Law*	12	3
LWB301	Equity*	12	3
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law Elective Subject	8-12	2-3

Year 5, Semester 1

LWB309	Succession	8	2
LWB401	Company Law & Partnership*	12	3
LWB402	Evidence	12	3
LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II*	4	1

Year 5, Semester 2

LWB401	Company Law & Partnership*	12	3
LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB409	Professional Conduct (5 weeks)	2	2
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II*	4	1

■ Bachelor of Business – Computing/Bachelor of Laws (IFJ235)

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 561

Standard Credit Points/Full-Time Semester: 56.1

* Subject extends over two semesters.

Course Coordinators: Mr John Pyke, Mr Bob Smyth

Professional Recognition

This course is accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society, and it meets the academic requirements for admission to practice.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CSB100	Introduction to Computer Science	9	3
INB100	Practice I (INJ232)	12	4
ISB101	Application Systems	9	3
ISB102	Representation of Information	9	3
MAB172	Quantitative Methods IB	9	3
Year 1, Semester 2			
CMB104	Professional Communication	9	3
CSB101	Computer Systems I	9	3
CSB110	Programming Principles	9	3
INB150	Practice II (INJ232)	12	4
ISB201	Information Systems Analysis & Design I	9	3
Year 2, Semester 1			
INB201	Practice III (ISJ210)	12	4
INB270	Data Communications	9	3
ISB202	Database & Procedural Languages	9	3
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB104	Legal Research & Writing I*	4	1
Year 2, Semester 2			
INB251	Practice IV (ISJ210)	12	4
ISB210	Information Systems Analysis & Design II	9	3
ISB302	Database Management	9	3
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB104	Legal Research & Writing I*	4	1
Year 3, Semester 1			
INB301	Project Work	12	4
ISB301	Advanced Information Systems	9	3
LWB103	Torts*	12	3
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	3
Year 3, Semester 2			
ISB313	Expert Information Systems	9	3
ISB314	Information Systems Management	9	3
LWB103	Torts*	12	3
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	3
Year 4, Semester 1			
LWB201	Land Law*	12	3
LWB301	Equity*	12	3
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law Elective Subject	8-12	2-3

* Subject extends over two semesters.

Year 4, Semester 2

LWB201	Land Law*	12	3
LWB301	Equity*	12	3
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law Elective Subject	8-12	2-3

Year 5, Semester 1

LWB309	Succession	8	2
LWB401	Company Law & Partnership*	12	3
LWB402	Evidence	12	3
LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II*	4	1

Year 5, Semester 2

LWB401	Company Law & Partnership*	12	3
LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB409	Professional Conduct (5 weeks)	2	2
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II*	4	1
	One Law Elective Subject	8-12	2-3

Electives

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 Dean of Faculty.

■ Bachelor of Engineering/Bachelor of Business – Manufacturing Systems and Management (IFJ237)

Location: Gardens Point campus

Course Duration: 5 years full-time

Total Credit Points: 562

Standard Credit Points/Full-Time Semester: 56.2

Course Coordinator: Mr A. de Jong

Professional Recognition

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

Special Course Requirement

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

To gain approval for the employment, the student must submit a description of employment to the Course Coordinator on the appropriate industrial experience record form completed by both the student and employer.

* Subject extends over two semesters.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MAB193	Engineering Mathematics I*	6	3
PHB132	Engineering Physics IA	6	3
CEB184	Engineering Mechanics I	7	3
CSB191	Introduction to Computing	4	2
MEB173	Manufacturing Practice	7	3
MNB154	Psychology	12	3
MNB153	Analysis & Methodology in Management	12	3
Year 1, Semester 2			
MAB193	Engineering Mathematics I*	6	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
Year 2, Semester 1			
MAB493	Engineering Mathematics II*	6	3
MEB121	Engineering Graphics	6	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
Year 2, Semester 2			
MAB493	Engineering Mathematics II*	6	3
MEB101	Design I	8	3
MEB231	Materials III	6	3
MEB251	Thermodynamics II	6	3
MNB251	Macroeconomic Analysis	12	3
MEB471	Manufacturing Engineering I	6	3
MNB451	Government, Business & Law	12	4
MEB470	Industrial Experience II		5 weeks
Year 3, Semester 1			
EEB101	Circuits & Measurements	7	3
MEB361	Fluids I	6	3
MEB381	Design II	6	3
MEB510	Noise & Vibrations	7	3
MEB571	Manufacturing Engineering II	6	3
MNB351	Organisational Analysis & Management	12	3
MNB391	Marketing Management	12	3
Year 3, Semester 2			
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
MEB673	Manufacturing Engineering III	7	3
MNB254	Personnel Management & Industrial Relations	12	3
MEB600	Industrial Experience III		5 weeks

* Subject extends over two semesters.

Year 4, Semester 1

INB270	Data Communication	9	3
EEB372	Sequential Logic	7	3
MEB771	Industrial Engineering II	6	3
MEB463	Tribology	6	3
MEB773	Design for Manufacturing I	7	3
MNB392	Consumer Behaviour	12	3
MNB592	Marketing Research	12	3

Year 4, Semester 2

EEB472	Microprocessors	6	3
EEB520	Control Engineering	6	3
MEB660	Fluid Power	6	3
MEB974	Design for Manufacturing II	7	3
MEB976	Computer Integrated Manufacturing	7	3
ACB336	International Finance	12	3
MNB625	Professional Marketing Practice	12	3

Year 5, Semester 1

CSB324	Artificial Intelligence	9	3
MEB977	Computer Control of Manufacturing Systems	7	3
EEB591	Systems Programming Languages	6	3
MEB900	Manufacturing Project*	12	3
MNB411	Export Management	12	3
MNB526	International Marketing	12	3

Year 5, Semester 2

MEB978	Manufacturing Systems Engineering	7	3
MNB651	Managerial Strategy	12	3
CSB325	Expert Systems	9	3
MEB900	Manufacturing Project*	12	3
MNB691	Strategic Marketing	12	3
MEB975	Design of Manufacturing Systems	7	3

■ Bachelor of Applied Science – Surveying/Bachelor of Business – Information Management (IFJ251)

Location: Gardens Point campus

Course Duration: 4.5 years full-time

Total Credit Points: 447

Standard Credit Points/Full-Time Semester: 49.67

Course Coordinators: Mr Bruce Chapman, Mr Michael Middleton

Professional Recognition

This course has been accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society and it meets the requirements of the Queensland Surveyors' Board for registration as a surveyor, but not for licensing.

* Subject extends over two semesters.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CSB100	Introduction to Computer Science	9	3
INB100	Practice I (INJ232)	12	4
ISB102	Representation of Information	9	3
ISB113	Principles of Information Management	9	3
MAB199	Survey Mathematics I	12	6
SVB111	Data Presentation I	6	3
Year 1, Semester 2			
ACB181	Accounting Information Systems I	9	2
CSB101	Computer Systems I	9	3
CSB110	Programming Principles	9	3
INB150	Practice II (INJ232)	12	4
MAB495	Survey Mathematics II	12	6
MAB499	Basic Statistics for Surveyors	5	2
Year 2, Semester 1			
INB202	Practice III (ISJ243)	12	4
ISB201	Information Systems Analysis & Design I	9	3
ISB203	Advanced Data Base	9	3
SVB121	Land Surveying I	13	6
PHB170	Physics for Surveyors	12	6
Year 2, Semester 2			
INB252	Practice IV (ISJ243)	12	4
INB270	Data Communications	9	3
ISB214	The Information Resource	9	3
SVB212	Data Presentation IIA	2	1
SVB226	Land Surveying II	13	6
SVB270	Land Administration I	6	3
Year 3, Semester 1			
CSB321	Graphics	9	3
SVB311	Data Presentation III	5	3
SVB331	Observations & Adjustments I	4	2
SVB351	Land Studies I	12	6
SVB393	Land Surveying III	10	5
SVB573	Land Administration III	6	3
Year 3, Semester 2			
ISB318	Strategic Information Management	9	3
MNB413	Applied Cognitive Psychology	9	2
SVB343	Photogrammetry I	6	3
SVB430	Land Surveying IV	9	4
SVB431	Observations & Adjustments II	4	2
SVB442	Geodetic Computations	9	4
Year 4, Semester 1			
CMB104	Professional Communication	9	3
ISB301	Advanced Information Systems	9	3
MAB795	Survey Mathematics III	6	3
MNB591	Economics of Information	9	2
SVB443	Photogrammetry II	11	6
Year 4, Semester 2			
IFB880	Project*	12	3
ISB314	Information Systems Management	9	3
SVB412	Cartographic Practice	5	3

* Subject extends over two semesters.

SVB473	Land Information Systems I	5	3
SVB636	Land Surveying VI	6	3
SVB682	Seminar II	2	1
SVB688	Professional Practice A	4	2

Year 5, Semester 1

IFB880	Project*	12	3
ISB303	Office Information Systems	9	3
SVB470	Land Administration II	4	2
SVB535	Land Surveying V	5	3
SVB551	Land Valuation	6	3
SVB563	Land Information Systems II	4	2
	Elective	9	3

Electives

Subject to prerequisites and timetable constraints, and subject to the prior approval of the Course Coordinator, any subject from either of the two degree programs drawn upon to 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
ISB302	Data Base Management	9	3
ISB493	Business Computer Programming	12	4
ISB998	Special Topic - Business Computing	9	3
SVB645	Remote Sensing	5	3
SVB670	Land Administration V	5	3

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

Location: Gardens Point campus

Course Duration: 1 year part-time

Standard Credit Points/Full-Time Semester: 48

Coordinators: Mrs Wendy Mathieson, Ms Debra Messer

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.

* Subject extends over two semesters.

		Credit Points
CHS200	Chemistry	6
PHS021	Physics	6
ENS100	Engineering Skills	6
MAS090	Mathematics (a full year subject) per semester	
	OR	
MAS091	Mathematics (a single semester subject)	12
	OR	
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

FACULTY OF ARTS

FACULTY OF ARTS

Kelvin Grove campus

Course Structures

■ Master of Arts – Drama (MARD)*

Location: Kelvin Grove campus

Course Duration: 4 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Rod Wissler

Entry Requirements

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

- (i) an approved honours degree; or
- (ii) an approved postgraduate diploma;
- (iii) an approved bachelor's degree at an acceptable standard; or
- (iv) other qualifications deemed acceptable which may include substantial relevant experience.

Course Structure	Credit Points	Contact Hrs/Wk
Year 1, Semester 1		
DR5000 Arts Research Methods 1	12	3
Year 1, Semester 2		
DR5001 Arts Research Methods 2	12	3

Details on the subjects offered in the subsequent three years of the course are available from the Course Coordinator.

■ Graduate Certificate of Education – Teaching of English to Speakers of Other Languages (TESOL)

Location: Kelvin Grove campus

Course Duration: 1 semester full-time

Total Credit Points: 40

Course Coordinator: Dr Ed Burke

* Course offered subject to final approval.

Entry Requirements

To be eligible for admission an applicant must:

- (i) hold a recognised degree or diploma of education.

Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
LA4010	Language in Use	10	3
LA4011	Language Teaching in Practice	10	3
LA4012	The Nature of Language Learning	10	3
LA4018	Curriculum Development	10	3

■ Bachelor of Arts (Honours) – Dance, Drama or Visual Arts (BAHO)

Location: Kelvin Grove campus

Course Duration: 1 year full-time

Total Credit Points: 80

Standard Credit Points/Full-Time Semester: 40

Entry Requirements

In accordance with ACTA guidelines entry to the Honours Program will only be available to students who have an outstanding record of achievement from an early stage in the basic degree.

Applicants will only be made an offer of a place in the Honours Program after:

- (i) successful completion of a bachelor's degree
- (ii) achievement of an average credit standard across studies undertaken in their bachelor's degree
- (iii) completion of the appropriate prerequisite subjects in their basic degree or their equivalent
- (iv) review by the Course Coordinator of the pattern of grades by the student over the three years. A student's average achievement should be supported by a high level of achievement in theoretical subjects
- (v) notwithstanding the above the applicant may hold other qualifications acceptable to the Dean which may include substantial work experience or involvement in relevant research activities.

Course of Study

DURATION

Students will normally be required to complete their course of study in accordance with the following time-span:

- ☐ for full-time students, a minimum of one year (2 semesters) and a maximum of two years (4 semesters).

AREAS OF STUDY

The degree may be taken in any of the following areas of study:

- ☐ Dance
- ☐ Drama
- ☐ Visual Arts

CREDIT POINTS

Students will obtain a total of 80 credit points from studies in coursework subjects or the research project.

FORM OF STUDY

Depending on the area of study students will undertake between 40 and 80 credit points on the Research Project, and up to 40 credit points on coursework subjects.

There is provision for the Research Project to incorporate original artistic production with a related written thesis component. Details of the particular provisions in each area of study are found in the course accreditation documents of each.

Research Project

In any area of study of the degree, 40 credit points of the Research Project will normally be committed to a written component, and no less than the equivalent of 30 credit points will be committed to the dissertation. This written component of the Research Project should be prepared and submitted to conform with format, style and other guidelines as set out in the publication *Guide to Thesis Presentation*.

REQUIREMENTS

- (i) The nature of the research project must permit the student to demonstrate the acquisition of relevant research skills and their effective application in an investigation of substance and significance.
- (ii) During first semester the plan for the full program will be negotiated between the student and supervisor and approved by the Course Coordinator.
- (iii) The dissertation must comprise a comprehensive, lucid and concise exposition on the context, objectives and conduct of the investigation and on its outcomes and their interpretation.

SUPERVISION

- (i) For each student undertaking a research project a supervisor or supervisory team is identified early in the program when the project topic is chosen.
- (ii) Students should meet regularly with their supervisor to discuss progress, submit drafts or progress reports or present seminars where appropriate and seek guidance as necessary.
- (iii) Supervisors should be readily available to students, should provide scholarly support and constructive criticism and should assist as appropriate with access to facilities, and any relevant external agencies.
- (iv) In special circumstances and with the specific approval of the Dean, an external supervisor may be appointed.

Unsatisfactory Progress

- (i) With respect to coursework studies, students who have failed two or more subjects or who have otherwise progressed unsatisfactorily, may be excluded on the advice of the Course Coordinator to the Student Assessment Review Committee.

- (ii) With respect to the Research Project, progress which is considered clearly unsatisfactory by both the supervisor and the Course Coordinator may lead to a recommendation by them to the SARC, that the student be excluded from the course.

Examination of the Research Project

SUBMISSION OF DISSERTATION

A student should submit a minimum of two copies of a dissertation to the relevant Course Coordinator for examination. These should be temporarily bound in order to facilitate the making of any revisions and editorial changes required by examiners (if the dissertation is otherwise acceptable to them) before final printing and binding.

EXAMINATION OF RESEARCH PROJECT

- (i) Each Research Project will then be examined by at least two examiners appointed by the Course Coordinator. One of the examiners appointed will normally be external to the University.
- (ii) The Honours supervisory staff of the Department will form an examining committee chaired by the Course Coordinator to consider the grading of the Research Project along with coursework subjects, to consult with examiners, and to recommend to the Student Assessment Review Committee of the Faculty on the final level of award.

CLASSES OF AWARD

- (i) Students will graduate from the Honours Program at the levels of either:
- Class I Honours
 - or Class IIA Honours
 - or Class IIB Honours

A student failing to achieve IIB Class Honours remains with a Pass Degree.

- (ii) *Class Standards*

Class of Honours awarded will equate with the standard University grading scale in the following manner:

- Class I Honours
- Class IIA Honours
- Class IIB Honours
- Grade of 7, High Distinction
- Grade of 6, Distinction
- Grade of 5, Credit

As with the general standard of entry into Honours, a grade of 5 is considered the minimum level of achievement to be classified for Honours graduation.

The descriptions of achievement as outlined in University policy for the Classes/Grades are as follows:

- (iii) *Class II Grade 7*

Students assigned a grade of 7 (Class of I) will, in addition to the requirements for a grade of 4 (ie, satisfactory levels of achievement in objectives designated as essential), have demonstrated either achievement of all objectives reflecting an extremely high level of performance or achievement of most objectives reflecting an outstanding level of performance.

Outstanding levels of performance may, for example, be exhibited as:

- ☐ outstanding levels of knowledge, mastery of all relevant skills
- ☐ outstanding levels of intellectual initiative and interpretative ability, or
- ☐ outstanding and original artistic responses.

(iv) Class IIA/Grade 6

Students assigned a grade of 6 (Class of IIA) will, in addition to the requirements for a grade of 4, have demonstrated either achievement of some objectives reflecting an extremely high level of performance or achievement of a large number of objectives reflecting a high level of performance.

(v) Class IIB/Grade 5

Students assigned a grade of 5 (Class of IIB) will, in addition to the requirements for a grade of 4, have demonstrated achievement of some objectives reflecting a high level of performance.

(vi) Research Project/Coursework

The award of a Class of Honours will be determined following the grading of the Research Project and coursework subjects undertaken on the 1 to 7 scale.

In this determination the examining committee will give a weighting proportionate to credit point values to the Research Project relative to coursework, before recommending a class of award.

DANCE

Course Structure	Credit Points	Contact Hrs/Wk
Year 4, Semesters 1 and 2		
DA3071 Research Project	60	-
Year 4, Semester 1		
DA3070 Enquiries into the Philosophy of Dance	20	3

DRAMA

Course Structure	Credit Points	Contact Hrs/Wk
Year 4, Semesters 1 and 2		
DR3100 Research Project	40	-
Year 4, Semester 1		
DR3101 Dramaturgy	10	-
DR3102 Contemporary Australian Playwrights	10	-
DR3103 Text Analysis	10	-
DR3104 Graduate Seminar	10	-

VISUAL ARTS

Course Structure	Credit Points	Contact Hrs/Wk
Year 4, Semesters 1 and 2		
AR3025 Research Project	80	-

■ Bachelor of Arts – Dance (BADA)

Location: Kelvin Grove campus

Course Duration: 3 years full-time

Total Credit Points: 300

Course Coordinator: Ms Shaaron Boughen

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semesters 1 and 2			
DA3050	Composition 1	10	4
DA3051	Dance Analysis & History	20	3
DA3052	Anatomy & Alignment	15	3
DA3053	Contemporary Technique 1*	20	7.5
DA3054	Classical Technique 1	10	4.5
Year 1, Semester 1			
AR3005	The Arts in Society	10	3
Year 1, Semester 2			
AR3006	Signs & Meanings	10	3
DA3055	Music 1	5	3
Year 2, Semesters 1 and 2			
DA3056	Contemporary Technique 2+	20	7.5
DA3057	Classical Technique 2	10	4.5
Year 2, Semester 1			
DA3058	Composition 2	10	4
DA3059	History of Australian Theatre Dance	10	3
DA3060	Music 2	5	3
DA3061	Practicum	20	-
	Elective	10	
Year 2, Semester 2			
DA3062	Dance in the Community#	10	4
DA3064	Dance Research#	5	2
	Elective	10	
Year 3, Semester 1			
DA3065	Writings on Dance	5	2
DA3066	Dance in Australian Society	10	3
DA3067	Professional Development Studies	5	2
	Elective(s)**	20	
Year 3, Semester 2			
DA3068	Dance Independent Study	20	-
DA3069	Production Techniques	10	6
	Elective(s)	20	

* Selected students may be required to replace this subject with DA3000 Contemporary Technique 1 (10 credit points).

+ Selected students may be required to replace this subject with DA3001 Contemporary Technique 2 (10 credit points).

Selected students may be required to replace subjects DA3062 and DA3064 with DA3085 Dance in Education (15 credit points) and DA3086 Folk Dance (10 credit points).

** Selected students may be required to undertake an additional subject DA3087 Jazz and Popular Dance (10 credit points) within this semester.

Electives**DANCE**

DA3037	Advanced Performance 1	20	7
DA3038	Advanced Performance 2	20	15
DA3039	Advanced Performance 3	20	15
DA3072	Advanced Analysis 1: Ballet	10	3
DA3073	Advanced Analysis 2: Modern Dance	10	3
DA3074	Advanced Analysis 3: Comparative Study	10	1
DA3075	Advanced Composition 1	10	5
DA3076	Advanced Composition 2	10	5
DA3077	Advanced Composition 3	10	5
DA3078	Dance in the Community 1	10	3
DA3079	Dance in the Community 2	10	3
DA3080	Dance in the Community 3	10	3

Dance Elective(s) for Students from other Majors – subject to demand and availability.

DA3081	Analysis & History - Elective*	20	3
DA3082	Composition 1 - Elective	10	4
DA3083	Composition 2 - Elective	10	4
DA3084	Technique, Anatomy & Alignment - Elective*	20	7

Elective subjects can be selected from other approved QUT courses; consult the Course Coordinator for details.

■ Bachelor of Arts – Drama (BADR)

Location: Kelvin Grove campus

Course Duration: 3 years full-time

Total Credit Points: 300

Course Coordinator: Dr Rod Wissler

Course Structure		Credit Points	Contact Hrs/Wk
OPEN MAJOR			
Year 1, Semester 1			
AR3005	Arts & Society	10	3
AR3006	Signs & Meanings	10	3
DR3006	Voice & Movement 1	10	4
DR3008	Stagecraft 1	10	4
DR3014	Elements of Drama	10	4
Year 1, Semester 2			
DR3004	Acting 1	10	4
DR3007	Voice & Movement 2	10	4
DR3009	Stagecraft 2	10	4
DR3015	Introductory Theatre Studies	10	4
DR3025	Practicum 1	15	-
Year 2, Semester 1			
DR3005	Acting 2	10	4
DR3012	Development of Theatre 1	10	3
DR3018	Directing	10	3
DR3019	Drama Process	10	3
DR3022	Design	10	3

* Year long subjects.

Year 2, Semester 2

DR3013	Development of Theatre 2	10	3
DR3017	Playwrighting	10	3
DR3026	Practicum 2	15	-
	Elective(s)	20	

Year 3, Semester 1

DR3071	Arts Research & Evaluation 1	10	3
DR3072	Professional Studies	10	3
	Elective(s)	20	

Year 3, Semester 2

DR3023	Theatre Studies Option	10	3
DR3073	Arts Research & Evaluation 2	10	3
DR3074	Practicum 3	10	-
	Elective(s)	20	

ACTING MAJOR**Year 1 (as for Open Major)****Year 2, Semester 1**

DR3005	Acting 2	10	4
DR3012	Development of Theatre 1	10	3
DR3018	Directing	10	3
DR3019	Drama Process	10	3
DR3075	Voice 1	5	2
DR3076	Movement	10	4

Year 2, Semester 2

DR3013	Development of Theatre 2	10	3
DR3026	Practicum 2	15	-
DR3046	Voice 2	5	2
DR3051	Elements of Dance	5	2
DR3053	Musicianship 1	5	3
DR3077	Acting 3	10	4

Year 3, Semester 1

DR3047	Voice 3	5	2
DR3052	Dance Styles	5	2
DR3054	Musicianship 2	5	3
DR3072	Professional Studies	10	3
DR3074	Practicum 3	10	-
DR3078	Acting 4	10	4

Year 3, Semester 2

DR3044	Theatre Production	40	-
DR3079	Voice 4	5	2

MANAGEMENT MAJOR**Year 1 (as for Open Major)****Year 2, Semester 1**

AC3000	Accounting	10	4
	OR		
AC4018	Administrative Accounting	10	4
CO4022	Microcomputer Applications	10	4
DR3012	Development of Theatre 1	10	3
DR3071	Arts Research & Evaluation 1	10	3
DR3081	The Performing Arts Environment	10	3

Year 2, Semester 2

DR3013	Development of Theatre 2	10	3
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DR3026	Practicum 2	15	-
DR3069	Theatre Graphics	10	3
DR3082	Marketing the Performing Arts	10	3
DR3083	Financial Management in the Performing Arts	10	3

Year 3, Semester 1

DR3023	Theatre Studies Option	10	3
DR3072	Professional Studies	10	3
DR3084	Issues in Performing Arts Management	10	3
DR3085	Production Planning	10	3

Year 3, Semester 2

DR3044	Theatre Production	40	-
DR3074	Practicum 3	10	-

TECHNICAL MANAGEMENT MAJOR

Year 1 (as for Open Major)

Year 2, Semester 1

CO4022	Microcomputer Applications	10	4
DR3012	Development of Theatre 1	10	3
DR3081	The Performing Arts Environment	10	3
DR3086	Technical Aspects of Design	5	2
DR3087	Lighting 1	5	2
DR3088	Sound 1	5	3
DR3089	Stage Management	5	3

Year 2, Semester 2

DR3013	Development of Theatre 2	10	3
DR3026	Practicum 2	15	-
DR3083	Financial Management in the Performing Arts	10	3
DR3090	Lighting 2	5	3
DR3091	Sound 2	5	3
DR3092	The Stage Set 1	5	3
DR3093	Wardrobe Coordination	5	3

Year 3, Semester 1

DR3072	Professional Studies	10	3
DR3084	Issues in Performing Arts Management	10	3
DR3085	Production Planning	10	3
DR3094	The Stage Set 2	5	2
DR3095	Stage Property Coordination	5	3

Year 3, Semester 2

DR3044	Theatre Production	40	-
DR3074	Practicum 3	10	-

EDUCATIONAL DRAMA MAJOR

Year 1 (as for Open Major)

Year 2, Semester 1

DR3012	Development of Theatre 1	10	3
DR3019	Drama Process	10	3
DR3022	Design	10	3
DR3096	Children's Play to Performance	10	4
DR3097	Theatre in Education	10	4

Year 2, Semester 2

DR3013	Development of Theatre 2	10	3
DR3026	Practicum 2	15	-
DR3098	Forming Knowledge	10	4
	Elective(s)	20	

Year 3, Semester 1

DR3071	Arts Research & Evaluation 1	10	3
DR3072	Professional Studies	10	3
	Elective(s)	20	

Year 3, Semester 2

DR3023	Theatre Studies Option	10	3
DR3074	Practicum 3	10	-
DR3099	Advanced Drama Process	10	4
	Elective(s)	20	

Electives**DRAMA**

DR3028	Advanced Design 1	10	-
DR3029	Advanced Design 2	10	-
DR3035	Advanced Design 3	20	-
DR3036	Advanced Directing 1	10	-
DR3037	Advanced Directing 2	10	-
DR3038	Advanced Directing 3	20	-
DR3039	Advanced Playwriting 1	10	-
DR3040	Advanced Playwriting 2	10	-
DR3041	Independent Study: Drama	20	-

Elective subjects can be selected from other approved QUT courses; consult the Course Coordinator for details.

■ Bachelor of Arts – Music (BAMU)

Location: Kelvin Grove campus

Course Duration: 3 years full-time

Total Credit Points: 300

Course Coordinator: Mr Adrian Thomas

Course Structure		Credit Points	Contact Hrs/Wk
COMBINED STUDIES MAJOR			
Year 1, Semesters 1 and 2			
MU3035	Aural Musicianship 1	10	3
MU3057	Music in the Twentieth Century	10	3
MU3059	Keyboard Musicianship	10	2
MU3065	Practical Studies A1	15	2
MU3066	Practical Studies B1	15	6
Year 1, Semester 1			
AR3005	Arts & Society	10	3
	Elective	10	
Year 1, Semester 2			
AR3006	Signs & Meanings	10	3
	Elective	10	
Year 2, Semesters 1 and 2			
MU3036	Aural Musicianship 2	10	2
MU3040	Systems of Part Writing 1	10	2
MU3067	Practical Studies A2	15	2
MU3068	Practical Studies B2	15	6

Year 2, Semester 1

MU3046	History, Literature & Analysis 1	10	3
	Non-Music Elective	10	

Year 2, Semester 2

MU3047	History, Literature & Analysis 2	10	3
MU3070	Choral Arranging & Conducting OR	10	4
MU3071	Instrumental Arranging & Conducting Non-Music Elective	10 10	4

Year 3, Semesters 1 and 2

MU3041	Systems of Part Writing 2	10	2
MU3069	Practical Studies A3	15	2
MU3072	Ensemble	10	4

Year 3, Semester 1

MU3037	Aural Musicianship 3 OR	5	2
MU3058	Music in Contemporary Society	5	2
MU3048	History, Literature & Analysis 3 Non-Music Elective Elective selected from list below	10 10 10	3

Year 3, Semester 2

MU3044	Music Practicum Non-Music Elective Elective selected from list below	10 10 10	-
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Electives

MU3053	Composition & Technology 1	10	3
MU3054	Composition & Technology 2	10	3
MU3061	Sociology of Popular Music (Semester 1 only)	10	3
MU3070	Choral Arranging & Conducting	10	4
MU3071	Instrumental Arranging & Conducting	10	4

POPULAR MUSIC MAJOR**Year 1, Semesters 1 and 2**

MU3035	Aural Musicianship 1	10	3
MU3057	Music in the Twentieth Century	10	3
MU3059	Keyboard Musicianship	10	2
MU3065	Practical Studies A1	15	2
MU3066	Practical Studies B1	15	6

Year 1, Semester 1

AR3005	Arts & Society	10	3
MU3053	Composition & Technology 1	10	3

Year 1, Semester 2

AR3006	Signs & Meanings	10	3
MU3054	Composition & Technology 2	10	3

Year 2, Semesters 1 and 2

MU3036	Aural Musicianship 2	10	2
MU3040	Systems of Part Writing 1	10	2
MU3060	Improvisation	10	3
MU3067	Practical Studies A2	15	2
MU3068	Practical Studies B2	15	6

Year 2, Semester 1

MU3046	History, Literature & Analysis 1	10	3
MU3055	Composition & Technology 3	10	3

Year 2, Semester 2

MU3046	History, Literature & Analysis 2	10	3
MU3056	Composition & Technology 4	10	3

Year 3, Semesters 1 and 2

MU3034	Practical Studies A3	20	4
MU3041	Systems of Part Writing 2	10	2
MU3072	Ensemble	10	4

Year 3, Semester 1

MU3037	Aural Musicianship 3 OR	5	2
MU3058	Music in Contemporary Society	5	2
MU3048	History, Literature & Analysis 3	10	3
MU3061	Sociology of Popular Music	10	3
	Music Elective: Select one elective from list as for Combined Studies major	10	

Year 3, Semester 2

MU3045	Practicum 2	15	-
MU3048	History, Literature & Analysis 3	10	3
	Music Elective: Select one elective from list as for Combined Studies major	10	

Electives

MUSIC (not available in 1991)

MU3062	Community Music	10	3
MU3063	Studio Music Teaching	10	4
MU3064	Guitar Workshop	10	3

Elective subjects can be selected from other approved QUT courses; consult the Course Coordinator for details.

■ Bachelor of Arts – Visual Arts (BAVA)

Location: Kelvin Grove campus

Course Duration: 3 years full-time

Total Credit Points: 300

Course Coordinator: Dr Joe Airo-Farulla

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
AR3005	Arts in Society	10	3
AR3018	The Making of Modernism	10	4
ME3012	Foundation Media Study 1	30	18
Year 1, Semester 2			
AR3006	Signs & Meanings	10	3
AR3019	European & American Art	10	4
ME3001	Foundation Media Study 2	30	18

Year 2, Semester 1

AR3020	Current Debates on the Nature of Art	10	4
AR3021	History of Australian Art	10	4
ME3002	Advanced Media Study 1	30	18

Year 2, Semester 2

AR3022	Practicum 1	10	-
ME3003	Advanced Media Study 2	20	12
AR3016	Independent Study: Visual Arts	20	-
	OR		
ME3006	Extended Media Study 1	20	12
	OR		
	Elective(s)	20	

Year 3, Semester 1

ME3004	Advanced Media Study 3	30	18
AR3016	Independent Study: Visual Arts	20	-
	OR		
AR3024	Research Method Seminar	20	15
	OR		
ME3008	Extended Media Study 3	20	12
	OR		
	Elective(s)	20	

Year 3, Semester 2

AR3023	Practicum 2	10	-
ME3005	Advanced Media Study 4	20	12
AR3016	Independent Study: Visual Arts	20	-
	OR		
ME3010	Extended Media Study 5	20	16
	OR		
AR3017	Professional Studies AND	10	4
ME3011	Extended Media Study 6	10	8
	OR		
	Elective(s)	20	

■ Associate Diploma of Arts – Dance (ADAD)**Location:** Kelvin Grove campus**Course Duration:** 2 years full-time**Total Credit Points:** 240**Standard Credit Points/Full-Time Semester:** 60**Course Coordinator:** Mr Graeme Collins

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
DA1100	Classical Main Study 1	12	8
DA1101	Contemporary Basic Study 1	8	3
DA1104	Repertoire 1	5	2
DA1105	Dance Composition 1	5	2
DA1106	Music 1	5	3
DA1107	Applied Anatomy 1	5	2

DA1108	Dance Styles 1	5	2
DA1109	Body Alignment	5	1.5
Year 1, Semester 2			
DA1114	Repertoire 2	5	3
DA1115	Dance Composition 2	5	2
DA1116	Music 2	5	3
DA1117	Applied Anatomy 2	5	1.5
DA1119	Practice Period 1	20	-
DA1134	Dance Styles 2	10	4
DA1142	Contemporary Main Study 2	12	6
DA1143	Classical Basic Study 2	8	5
Year 2, Semester 1			
DA1121	Contemporary Dance 1	10	7.5
DA1122	Repertoire 3	5	3
DA1123	Dance Composition 3	5	2
DA1124	Dance Styles 3	5	3
DA1125	History of Dance	5	2
DA1135	Classical Ballet 1	15	9
DA1136	Stagecraft 1	5	2
Year 2, Semester 2			
DA1126	Classical Ballet 2	10	7.5
DA1128	Repertoire 4	5	3
DA1129	Dance Composition 4	5	2
DA1130	Dance Styles 4	5	3
DA1131	Professional Awareness Studies	5	3
DA1133	Practice Period 2	20	-
DA1137	Contemporary Dance 2	15	8
DA1138	Stagecraft 2	5	2

Carseldine campus

Course Structures

■ Graduate Diploma of Social Science – Counselling (GDCN)

Location: Carseldine campus

Course Duration: 2 years part-time

Total Credit Points: 95

Standard Credit Points/Full-Time Semester: 47.5

Course Coordinator: Mr Roger Lowe

Entry Requirements

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

- (i) an approved degree or diploma in the field of human service; and
- (ii) personal suitability.

Special Course Requirements

The course is currently offered on a part-time basis, which involves attendance at two 3-hour evening sessions per week plus additional practicum requirements. Students should note that the practicums are not scheduled on a regular weekly contact basis but that a minimum of 28 hours work in each practicum is required during the term in which the practicum is scheduled.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CL4000	Interpersonal Relationships in Counselling	10	3
CL4001	Theory & Practice of Counselling 1	10	3
CL4002	Practicum 1	5	-
Year 1, Semester 2			
CL4003	Counselling & Human Development	10	3
CL4004	Theory & Practice of Counselling 2	10	3
Year 2, Semester 1			
CL4005	Practicum 2	5	-
CL4006	Counselling: A Sociological Perspective	10	3
CL4007	Theory & Practice of Counselling 3	10	3
Year 2, Semester 2			
CL4014	Practicum 3	10	-
Elective	Select from List 26		5
Elective	Select from List 26		5
Elective	Select from List 26		5
ELECTIVES			
List 26			
CL4011	Cognitive-Behavioural Counselling	5	1.5
CL4012	Career Guidance & Counselling	5	1.5
CL4013	Family Counselling 1	5	1.5
CL4015	Interactional Counselling	5	.51
CL4016	Group Counselling	5	1.5
CL4017	The Counsellor & the Organisation	5	1.5
CL4018	Independent Study	5	1.5
CL4019	Family Counselling 2	5	1.5

■ Graduate Diploma of Social Science – Human Services Management (GDHS)

Location: Carseldine campus

Course Duration: 2 years part-time

Total Credit Points: 90

Standard Credit Points/Full-Time Semester: 45

Course Coordinator: Mr Keith Tully

Entry Requirements

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

- (i) an approved degree or diploma; and

- (ii) not less than three years' experience in human service organisations, preferably in a management position; and
- (iii) personal suitability.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
HW4000	Personal & Interpersonal Skills	10	3
HW4004	Service Policies & Principles	10	3
Year 1, Semester 2			
HW4001	Management Practices 1	15	5
HW4005	Program Planning & Evaluation	10	3
Year 2, Semester 1			
HW4002	Management Practices 2	15	5
Elective	Select one from the following:		
AC4018	Administrative Accounting	10	3
CO4022	Microcomputer Applications	10	3
HW4006	Management in the Community Sector	10	3
HW4007	Independent Study 1	10	3
Year 2, Semester 2			
HW4003	Innovation & Change	10	3
Elective	Select one from the following:		
AD3006	Media Management	10	3
HW4008	Independent Study 2	10	1
SK4009	Office Automation & Administration	10	3

■ Bachelor of Social Science (BSSC)

Location: Carseldine campus

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

Total Credit Points: 295

Course Coordinator: Mr Ross Daniels

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
HW3000	Studies in Australian Society 1	10	3
HW3001	Human Development 1	10	3
HW3002	Human Service Principles 1	10	4
PY3016	Interpersonal Psychology 1	10	3
Year 1, Semester 2			
HW3003	Studies in Australian Society 2	10	3
HW3004	Human Development 2	10	3
HW3005	Human Service Principles 2	10	4
PY3017	Interpersonal Psychology 2	10	3
Year 2, Semester 1			
HW3006	Group Work	10	3
HW3007	Organisational Skills 1	10	3
HW3008	Professional Resources 1	10	3

Select one from the following:

HW3020	Child & Family Services 1	10	3
HW3021	Disability Services 1	10	3
HW3022	Corrective Services 1	10	3
HW3023	Aged Services 1	10	3
HW3024	Ethnic Services 1	10	3
HW3040	Youth Services 1	10	3

INTER-SEMESTER PERIOD

HW3009	Fieldwork Practice 1	30	-
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Year 2, Semester 2

HW3010	Studies in Australian Society 3	10	3
HW3011	The Australian Welfare State	10	3
HW3012	Community Work	10	3
HW3013	Human Service Principles 3	5	2

Select one from the following:

HW3025	Child & Family Services 2	10	3
HW3026	Disability Services 2	10	3
HW3027	Corrective Services 2	10	3
HW3028	Aged Services 2	10	3
HW3029	Ethnic Services 2	10	3
HW3041	Youth Services 2	10	3

Year 3, Semester 1

HW3014	Contemporary Social Policies	10	3
HW3015	Professional Resources 2	10	4
HW3018	Organisational Skills 2	10	3

Select one from the following:

HW3030	Child & Family Services 3	10	3
HW3031	Disability Services 3	10	3
HW3032	Corrective Services 3	10	3
HW3033	Aged Services 3	10	3
HW3034	Ethnic Services 3	10	3
HW3042	Youth Services 3	10	3

INTER-SEMESTER PERIOD

HW3016	Fieldwork Practice 2	20	-
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Year 3, Semester 2

CL3001	Foundations of Counselling	10	3
HW3017	Social Policy & Social Change	10	3
HW3019	Human Service Principles 4	5	2

Select one from the following:

HW3035	Child & Family Services 4	15	3
HW3036	Disability Services 4	15	3
HW3037	Corrective Services 4	15	3
HW3038	Aged Services 4	15	3
HW3039	Ethnic Services 4	15	3
HW3043	Youth Services 4	15	3

Part-Time Course Structure

For details of the part-time course, contact the Course Coordinator.

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

FACULTY OF BUILT ENVIRONMENT AND ENGINEERING

Gardens Point campus

Course Structures

■ Master of Applied Science – Built Environment (BTN233)

Location: Gardens Point campus

Entry Requirements

Applicants for admission to the masters program:

- (a) shall hold a suitable degree or postgraduate qualification leading to eligibility for corporate membership of an accepted professional institute; or
- (b) shall hold qualifications approved by the Built Environment Graduate Studies Standing Committee on the recommendation of the Course Coordinator as equivalent to the requirements set out in paragraph (a) above; and
- (c) shall normally have at least three years of appropriate work experience.

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

PROJECT MANAGEMENT MAJOR

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

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 36

Coordinator for Project Management Major: Mr Andrew Leicester

The first two semesters full-time or four semesters part-time are identical to the Graduate Diploma in Project Management (BGM228). Persons admitted to the Master of Applied Science – Built Environment who are graduates of the Graduate Diploma in Project Management will complete the final two semesters of the course in order to be awarded the masters degree.

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

BUILDING PROJECT MANAGEMENT SPECIALISATION

Full-Time Course Structure

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

* Subject extends over two semesters.

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

BGP442	Dissertation*	24	8
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Part-Time Course Structure

Credit Points Contact Hrs/Wk

Year 1, Semester 1

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

BGP442	Dissertation*	24	8
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* Subject extends over two semesters.

PROPERTY DEVELOPMENT SPECIALISATION

Full-Time Course Structure

Year 1, Semester 1

BGP431	Project Management I*	6	2
BGP412	Property Maintenance	6	2
LPP325	Urban Design	6	2
BGP439	Property Management	6	2
BGP430	Current Issues*	9	3
BGP438	Real Estate Investment & Economics	6	2
	Elective	9	3

Year 1, Semester 2

BGP431	Project Management I*	6	2
LPP323	Urban Land Development	6	2
BGP437	Field Trip	12	-
BGP430	Current Issues*	9	3
BGP422	Advanced Valuations	6	2
	Elective	9	3

Year 2, Semester 1

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

Year 2, Semester 2

BGP442	Dissertation*	24	8
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Part-Time Course Structure

Year 1, Semester 1

BGP431	Project Management I*	6	2
BGP412	Property Maintenance	6	2
LPP325	Urban Design	6	2
BGP439	Property Management	6	2

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

BGP442	Dissertation*	24	8
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* Subject extends over two semesters.

URBAN DESIGN MAJOR

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

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Coordinator for Urban Design Major: Mr Gordon Holden

Provisional Entry to Urban Design Major

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

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

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

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

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

Year 1, Semester 2

BTN102	Urban Design Context Studio	9	3
BTN104	Urban Design Guidelines Studio	9	3
BTN203	The Urban Environment & Behaviour II	3	1

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

Year 2, Semester 1

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

Part-Time Course Structure

Credit Points **Contact Hrs/Wk**

Year 1, Semester 1

BTN101	Urban Design Analysis Studio	9	3
BTN201	Urban Design History of Urban Systems	3	1
BTN202	The Urban Environment & Behaviour I	3	1
BTN601	Prescriptive Subject for Urban Design	9	3

Year 1, Semester 2

BTN102	Urban Design Context Studio	9	3
BTN203	The Urban Environment & Behaviour II	3	1
BTN301	Conservation & Reuse in Urban Design	3	1
BTN302	The Urban Landscape	3	1
BTN401	Urban Design Computer Applications	6	2

Year 2, Semester 1

BTN103	Urban Design Conjecture Studio	9	3
BTN303	Transport & Movement Systems in Urban Design	3	1
BTN304	Urban Climate & Services	3	1
BTN402	Law & Legislation in Urban Design	3	1
BTN204	Urban Design Theory & Criticism	6	2

Year 2, Semester 2

BTN104	Urban Design Guidelines Studio	9	3
BTN305	Tourism & Recreation in Urban Design	3	1
BTN403	Urban Design Guidelines & Development Control	3	1
BTN404	Urban Design Feasibilities & Management	3	1
BTN701	Urban Design Research Elective I	6	2

Year 3, Semester 1

BTN105	Urban Design Field Studies Studio	9	3
BTN702	Urban Design Research Elective II	15	3

Year 3, Semester 2

BTN501	Urban Design Research Dissertation	24	7
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CITY AND REGIONAL PLANNING MAJOR

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Coordinator for City and Regional Planning Major: Assoc. Professor Phil Heywood

Entry Requirements

Applicants for admission should:

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

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

■ Master of Engineering Science – Civil (CEN254)

Location: Gardens Point campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Brian Rigden

Entry Requirements

Entrants to the masters degree program must either:

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

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

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

Course Structure

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

		Semester Offered	Credit Points	Contact Hrs/Wk
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Core Subjects

Subjects are generally offered in alternate years.

CEP131	Engineering Management & Administration	1	12	3
CEP200	Process Modelling	2	8	2
CEP999	Project	1,2	36	8

Electives

CEP128	Municipal Engineering Planning	1	12	3
CEP172	Water Quality Engineering	1	8	2
CEP218	Transportation Engineering	1	12	3
CEP107	Construction Management & Economics	1	8	2
CEP127	Road & Traffic Engineering	1	12	3
CEP361	Drainage Engineering	2	8	2
CEP174	Public Health Engineering Practice	1	12	3
CEP109	Municipal Law & Regulations	2	8	2
CEP310	Urban Transportation Planning	2	8	2
CEP277	Waste Management	2	12	3
CEP215	Advanced Traffic Engineering	2	8	2
CEP276	Advanced Treatment Processes	2	8	2

SUGGESTED ELECTIVES FOR PUBLIC HEALTH ENGINEERING MAJOR

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

SUGGESTED ELECTIVES FOR LOCAL GOVERNMENT MAJOR

CEP174	Public Health Engineering Practice
CEP277	Waste Management
CEP361	Drainage Engineering

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

SUGGESTED ELECTIVES FOR TRANSPORTATION ENGINEERING MAJOR

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

■ Master of Engineering Science – Computer Engineering (EEN260)

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Paul Wilson

Entry Requirements

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

Methods of Assessment

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

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

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

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Semester 1			
EEP102	Unix & C for Engineering	12	3
EEP104	Realtime Operating Systems	12	3

Semester 2

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

Part-Time Course Structure

Consult the Course Coordinator for details.

■ Master of Engineering by Thesis (ENN191)

Location: Gardens Point campus

Introduction

The objectives of the program are:

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

1. General Conditions

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

* Subject extends over two semesters.

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

2. Registration

2.1 Applications shall be accepted subject to the availability of facilities and supervision.

2.2 Applications may be lodged with the Registrar at any time.

2.3 There is a six-month maximum period between acceptance by the Master's Degree Standing Committee and enrolment by the student in the Master of Engineering by Thesis before the offer of admission to the program lapses.

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

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

- (a) Three years' professional experience in the general field in which the proposed work lies, or
- (b) Satisfactory completion of an appropriate master's qualifying program including formal coursework and/or reading program in related fields stipulated by the Engineering Academic Board,* or
- (c) The submission of technical publications or other appropriate evidence which satisfies the Engineering Academic Board that advanced knowledge has been acquired in a division of engineering in which the applicant has worked as a professional engineer in a position of responsibility. This knowledge should be relevant to the field of study proposed.

2.5 A candidate shall be registered initially as

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

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

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

2.7 The program is offered on a full-time and/or a part-time basis. Part-time students normally will be employed in some professional engineering capacity during the day and carry out their projects on a part-time basis at the QUT or in their place of employment or in a sponsoring organisation.

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

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

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

- after consulting a candidate's supervisors and having taken account of all relevant circumstances, the Academic Board is of the opinion that the candidate either has effectively discontinued his/her studies or has no reasonable expectation of completing the course of study within the maximum time allowed (see Section 4).
- 2.10 A candidate whose registration has lapsed or has been cancelled, and who wishes subsequently to re-enter the course of study to pursue a research program which is substantially the same as the previous investigation, may be re-admitted under such conditions as the Engineering Academic Board shall prescribe.

3. Course of Study

- 3.1 A candidate for the degree of Master of Engineering by Thesis will undertake necessary project work in design, investigation and research and/or development work on a topic approved by the Engineering Academic Board.
- 3.2 All projects should be sponsored by outside agencies such as industry, government authorities and professional organisations, or by the QUT itself. This provision is to ensure that programs are relevant to the aims of the University and the community. It is important that the projects be primarily directed towards industry need.
- 3.3 Where advised*, a candidate may be required to complete satisfactorily formal coursework in subjects relevant to the field of study up to a total class contact of 48 credit points.
- 3.4 The supervisor shall require students to participate in graduate seminars and may require them to attend specialist lectures. Students will be encouraged to attend conferences, where these are related to the field of the project.
Students are required to present at least one seminar on their thesis topic at QUT and are encouraged to present additional seminars to professional bodies.
- 3.5 The course of study normally will include:
 - participation in University scholarly activities such as research seminars, teaching and publication
 - regular face-to-face interactions with supervisors, and
 - a program of supervised research and investigation.

The course of study may also include a program of assessed coursework.
- 3.6 Coursework at masters level demands a capacity for critical analysis and a specialisation of research interests not normally appropriate for an undergraduate program. Such coursework may be conducted in a number of ways:
 - as advanced lecture courses
 - as seminars in which faculty and students present critical studies of selected problems within the subject field
 - as independent study or reading courses, or
 - as research projects conducted under faculty supervision.

In all cases, coursework will be based upon a formal syllabus setting out the educational outcomes expected from the course, a list of topics to be covered, the prescribed reading material and the method of assessment of progress through and at the end of the course.
- 3.7 The following documents should be lodged with the application:

* As a qualifying program.

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

4. Period of Time for Completion of Course of Study

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

5. Supervision

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

6. Place and Conditions of Work

- 6.1 The research program must normally be carried out under supervision in Australia.
- 6.2 The Academic Board shall not admit a candidate unless it has received:

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

7. Thesis

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

8. Examination of Thesis

- 8.1 The Engineering Academic Board shall appoint three examiners, of whom at least two shall be from outside the University. No supervisor of the candidate shall be appointed as one of the examiners.
- 8.2 Normally, examiners must agree to read and report upon the thesis within two months of its receipt.
- 8.3 On receipt of the reports from the examiners, the Engineering Academic Board shall:
- (a) recommend that the thesis be accepted without modification, or
 - (b) recommend to Academic Committee that the student be awarded a Master of Engineering degree, after any minor amendments requested by the examiners have been made, or
 - (c) permit the student to resubmit the revised thesis for re-examination within one year, or
 - (d) cancel the student's registration.
- 8.4 If the examiners' reports are conflicting, the Engineering Academic Board may, after appropriate consultation with the Principal Supervisor, resubmit the thesis to the examiners with copies of the examiners' reports. After due consideration of further reports from the examiners, a majority decision will be accepted by the Board.

■ Graduate Diploma in Computer Engineering (EEM230)

Location: Gardens Point campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Paul Wilson

Entry Requirements

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

- (i) a Bachelor's degree in Engineering or Computer Science.

Applicants possessing a degree in other areas of technology such as Mathematics, Physics or Chemistry may be required to undertake prerequisite subjects at undergraduate level.

Course Structure	Credit Points	Contact Hrs/Wk
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Eight subjects of 3 hours and 12 credit points each:

Core Subjects

Year 1, Semester 1

EEP102	Unix & C for Engineering	12	3
EEP104	Realtime Operating Systems	12	3

Year 1, Semester 2

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

Electives

Any four to be selected.

Year 2, Semester 1

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

Year 2, Semester 2

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

■ Graduate Diploma in Industrial Design (ARM142)

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Vesna Popovic

Entry Requirements

To be eligible for admission, an applicant must:

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

Professional Recognition

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

Full-Time Course Structure

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

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

■ Graduate Diploma in Interior Design (ARM256)

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Peter Hedley

Entry Requirements

To be eligible for admission, an applicant must:

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

Professional Recognition

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

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

Semester 2

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

Part-Time Course Structure

Credit Points **Contact Hrs/Wk**

Year 1, Semester 1

ARP502	Environmental Communications	13	5
ARP504	Professional Practice & Management for Interior Designers I	11	4

Year 1, Semester 2

ARP503	Workplace Design	12	5
ARP505	Professional Practice & Management for Interior Designers II	4	2
ARP600	Building Evaluation & Brief Development	8	3

Year 2, Semester 1

ARP501	Introduction to Facilities Management	8	2
ARP601	Film, TV & Design for Theatre	16	6

Year 2, Semester 2

ARP602	Conservation of Historic Interiors	16	6
ARP603	Historic Technologies	8	3

■ Graduate Diploma in Landscape Architecture (LPM265)

Location: Gardens Point campus

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr George Williams

Entry Requirements

To be eligible for normal admission, an applicant must:

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

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

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

Professional Recognition

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

Full-Time Course Structure

**Credit
Points**

**Contact
Hrs/Wk**

Year 1, Semester 1

LPP501	Theory of Site Planning	2	1
LPP506	User & Character Design Studies	8	3
LPP508	Introduction to Practice	4	2
LPP511	Environmental Psychology	4	2
LPP512	Introduction to Plant Science	4	2
LPP513	Introduction to Plant Ecology	4	2
LPP516	Visual Communication - Graphics	6	3
LPP517	Oral Communication Skills	2	1
LPP518	Report Preparation	2	1
LPP521	Map & Air Photo Interpretation	4	1
LPP522	Measurement of Sites	2	1
LPP523	Landscape Construction	6	3

Year 1, Semester 2

LPP502	Site Planning Techniques	2	1
LPP503	History of Landscape Design	2	1
LPP504	Planting Design	3	1
LPP505	Conservation Theory	3	1
LPP507	Site Planning	11	3
LPP509	Quantities & Costs	2	1
LPP510	Introduction to Law	2	1
LPP514	Landscape Ecology	9	3
LPP515	Impacts & Assessment	4	2
LPP520	Landscape Graphics	4	2
LPP524	Land Grading	6	3

Year 2, Semester 1

LPP202	Residential Landscape Design	8	3
LPP203	Urban Landscape Design	10	3
LPP206	Forum/Workshop A	2	1
LPP209	Advanced Landscape Ecology	2	1
LPP210	Landscape Management A	10	4
LPP212	Advanced Graphics	4	2
LPP213	Advanced Landscape Construction	8	3
LPP215	Department Field Trip*	2	-
LPP216	Computer Aided Data Analysis A	2	1

Year 2, Semester 2

LPP201	Cultural Values	4	1
LPP204	Landscape Planning	10	4
LPP205	Landscape Design	10	3
LPP207	Forum/Workshop B	2	1
LPP208	Landscape Practice	6	2
LPP211	Landscape Management B	10	4
LPP214	Landscape Engineering	4	2
LPP217	Computer Aided Data Analysis B	2	1

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

Part-Time Course Structure

**Credit
Points**

**Contact
Hrs/Wk**

Year 1, Semester 1

LPP508	Introduction to Practice	4	2
LPP512	Introduction to Plant Science	4	2
LPP513	Introduction to Plant Ecology	4	2
LPP516	Visual Communication - Graphics	6	3
LPP521	Map & Air Photo Interpretation	4	1
LPP522	Measurement of Sites	2	1

Year 1, Semester 2

LPP504	Planting Design	3	1
LPP509	Quantities & Costs	2	1
LPP514	Landscape Ecology	9	3
LPP520	Landscape Graphics	4	2
LPP524	Land Grading	6	3

Year 2, Semester 1

LPP501	Theory of Site Planning	2	1
LPP506	User & Character Design Studies	8	3
LPP511	Environmental Psychology	4	2
LPP517	Oral Communication Skills	2	1
LPP518	Report Preparation	2	1
LPP523	Landscape Construction	6	3

Year 2, Semester 2

LPP502	Site Planning Techniques	2	1
LPP503	History of Landscape Design	2	1
LPP505	Conservation Theory	3	1
LPP507	Site Planning	11	3
LPP510	Introduction to Law	2	1
LPP515	Impacts & Assessment	4	2

Year 3, Semester 1

LPP202	Residential Landscape Design	8	3
LPP209	Advanced Landscape Ecology	2	1
LPP212	Advanced Graphics	4	2
LPP213	Advanced Landscape Construction	8	3
LPP216	Computer Aided Data Analysis A	2	1

Year 3, Semester 2

LPP204	Landscape Planning	10	4
LPP207	Forum/Workshop B	2	1
LPP211	Landscape Management B	10	4
LPP217	Computer Aided Data Analysis B	2	1

Year 4, Semester 1

LPP203	Urban Landscape Design	10	3
LPP206	Forum/Workshop A	2	1
LPP210	Landscape Management A	10	4
LPP215	Department Field Trip*	2	-

Year 4, Semester 2

LPP201	Cultural Values	6	1
LPP205	Landscape Design	11	3
LPP208	Landscape Practice	6	2
LPP214	Landscape Engineering	4	2

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

■ Graduate Diploma in Municipal Engineering (CEM213)

Location: Gardens Point campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Brian Rigden

Entry Requirements

NORMAL ENTRY

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

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

QUALIFYING ENTRY

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

Course Structure

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

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

SUGGESTED LOCAL GOVERNMENT ENGINEERING PRACTICE MAJOR

Core subjects plus the following:

CEP107	Construction Management & Economics	8	2
CEP109	Municipal Law & Regulations	8	2

CEP127	Road & Traffic Engineering	12	3
CEP174	Public Health Engineering Practice	12	3

SUGGESTED TRANSPORTATION ENGINEERING MAJOR

Core subjects plus the following:

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

SUGGESTED PUBLIC HEALTH ENGINEERING MAJOR

Core subjects plus the following:

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

■ Graduate Diploma in Project Management (BGM228)

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Andrew Leicester

Entry Requirements

To be eligible for admission, an applicant must:

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

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

BUILDING MAJOR

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Semester 1			
BGP431	Project Management I*	6	2
BGP434	Time Management I	6	2
BGP417	Design Management	6	2
BGP429	Cost Management & Economics*	6	2
BGP430	Current Issues*	9	3
BGP426	Project Development*	6	2
BGP433	Project Management Law*	6	2

Semester 2

BGP431	Project Management I*	6	2
BGP414	Time Management II	6	2
BGP429	Cost Management & Economics*	6	2

* Subject extends over two semesters.

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

Part-Time Course Structure

Credit Points **Contact Hrs/Wk**

Year 1, Semester 1

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

Year 1, Semester 2

BGP431	Project Management I*	6	2
BGP414	Time Management II	6	2
BGP429	Cost Management & Economics*	6	2
BGP437	Field Trip	12	-

Year 2, Semester 1

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

Year 2, Semester 2

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

PROPERTY DEVELOPMENT MAJOR

Full-Time Course Structure

Credit Points **Contact Hrs/Wk**

Year 1, Semester 1

BGP431	Project Management I*	6	2
BGP412	Property Maintenance	6	2
LPP325	Urban Design	6	2
BGP439	Property Management	6	2
BGP430	Current Issues*	9	3
BGP438	Real Estate Investment & Economics	6	2
	Elective	9	3

Year 1, Semester 2

BGP431	Project Management I*	6	2
LPP323	Urban Land Development	6	2
BGP437	Field Trip	12	-
BGP430	Current Issues*	9	3
BGP422	Advanced Valuations	6	2
	Elective	9	3

Part-Time Course Structure

Credit Points **Contact Hrs/Wk**

Year 1, Semester 1

BGP431	Project Management I*	6	2
BGP412	Property Maintenance	6	2
LPP325	Urban Design	6	2
BGP439	Property Management	6	2

* Subject extends over two semesters.

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

■ Graduate Diploma in Surveying Practice (SVM241)

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Brian Hannigan

Professional Recognition

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

Entry Requirements**NORMAL ENTRY**

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

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

QUALIFYING ENTRY

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

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

* Subject extends over two semesters.

SVP113	Office Operations	7	90
SVP114	Practice Law	2	30
SVP115	Professional Practice	1	8
SVP116	Survey Project Management	7	100

Semester 2

SVP211	Cadastral Surveying II	18	247
SVP212	Building Control Surveys	3	38
SVP213	Detail Surveys	2	30
SVP214	Mapping	6	76
SVP215	Innovations & Systems Developments	2	22
SVP216	Surveys for Government	3	38
SVP217	Engineering Surveying	16	210

■ Graduate Diploma in Urban and Regional Planning (LPM267)

Location: Gardens Point campus

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Brian Hudson

Entry Requirements

To be eligible for admission, an applicant must:

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

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

Professional Recognition

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

Full-Time Course Structure

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Part-Time Course Structure

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

Year 1, Semester 1

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

Year 1, Semester 2

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

Year 2, Semester 1

LPP554	Site Planning Practice	12	3
LPP557	Transport Planning	5	2

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

Year 4, Semester 1

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

Year 4, Semester 2

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

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

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr John Donnelly

Professional Recognition

ARCHITECTURE MAJOR

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

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

INDUSTRIAL DESIGN MAJOR

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

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

INTERIOR DESIGN MAJOR

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

LANDSCAPE ARCHITECTURE MAJOR

Successful completion of the Bachelor of Applied Science – Built Environment (Landscape Architecture Major) will enable students to gain entry to the Graduate Diploma course. The Graduate Diploma in Landscape Architecture is the only course in Landscape Architecture in Queensland, and one of the courses in Landscape Architecture accredited by the Australian Institute of Landscape Architects.

URBAN AND REGIONAL PLANNING MAJOR

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

Full-Time Course Structure

**Credit
Points**

**Contact
Hrs/Wk**

ARCHITECTURE MAJOR

Year 1, Semester 1

BTB101	The Human Environment I	4	2
BTB102	History of the Built Environment I	6	3
BTB110	Applied Mathematics for Designers I	6	3
PHB144	Applied Science for Designers I	6	3
SVB001	Surveying & Mapping	2	1
CMB116	Writing for Designers I	4	2
BTB100	Introductory Design I	16	8
BTB113	Environmental Science	4	2

Year 1, Semester 2

BTB201	The Human Environment II	4	2
BTB202	History of the Built Environment II	10	5
BTB210	Applied Mathematics for Designers II	6	3
BTB204	Applied Science for Designers II	4	2
BTB209	Applied Land Science for Designers	2	1
CMB117	Writing for Designers II	4	2
BTB200	Introductory Design II	18	8

Year 2, Semester 1

BTB301	The Human Environment III	6	3
CEB359	Principles of Structure I	2	1
BTB310	Building Construction I	16	6
BTB307	Design Science I	2	1
BTB300	Design I	18	8
BTB306	Visual Communication I	4	2

Year 2, Semester 2

BTB403	Environmental Studies - Environmental Impacts	2	1
BTB410	Building Construction II	10	5
BTB401	The Human Environment IV	4	2
BTB407	Design Science II	2	1
CEB459	Principles of Structure II	4	2
BTB406	Visual Communications II	4	2
BTB400	Design II	20	6
BTB440	Introduction to Economics	2	1

Year 3, Semester 1

BTB517	Building Services I	4	2
BTB510	Building Construction III	17	6
BTB500	Design III	20	6
CEB559	Principles of Structure III	4	2
BTB527	Design Science III	3	1

Year 3, Semester 2

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

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

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

INTERIOR DESIGN MAJOR

Year 1, Semester 1

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

LANDSCAPE ARCHITECTURE MAJOR

Year 1, Semester 1

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

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

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

Year 1, Semester 2

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

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

■ Bachelor of Applied Science – Construction Management (BGJ201)

Location: Gardens Point campus

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

Total Credit Points: 289

Standard Credit Points/Full-Time Semester: 48.17

Course Coordinator: Mr Gary Thomas

Special Course Requirement

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

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

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

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

Full-Time/Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BGB151	Construction I	12	6
CMB134	Communications	4	2
BGB342	Law 2 - Principles & Property	3	1.5
MNB007	Behavioural Science	6	3
MAB297	Mathematics for Construction	4	2
SVB101	Surveying & Measuring	4	2
BGB103	Material Science I	4	2
BGB143	Structures I	4	2
Year 1, Semester 2			
BGB154	Construction II	14	7
BGB345	Hygiene & Sanitation	6	3
BGB343	Economics of the Construction Industry	4	2
BGB131	Measurement of Construction IA	6	3
SVB203	Project Survey	4	2
ISB180	Computer Applications	4	2
BGB104	Material Science II	4	2
BGB144	Structures II	4	2
Year 2, Semester 1			
BGB253	Construction III	10	5
BGB013	Building Services I - HVAC	4	2
BGB245	Measurement of Construction IB	6	3
BGB443	Building Services III	5	2.5
BGB440	Law 3 - Building Contracts*	3	1
BGB403	Building Management I	4	2
BGB442	Valuations & Dilapidations*	4	2
BGB601	Formwork Design & Construction	4	2
BGB247	Material Science III	4	2
BGB257	Structures III	4	2
Year 2, Semester 2			
BGB254	Construction IV	12	6
BGB243	Law 1 - Building Acts & Regulations	5	2
BGB014	Building Services II - Electrical	4	2
BGB246	Measurement of Construction IIB	8	4
BGB440	Law 3 - Building Contracts*	3	1
BGB446	Estimating I	5	2.5
BGB404	Building Management II	4	2
BGB442	Valuations & Dilapidations*	2	1

* Subject extends over two semesters.

BGB405	Project Equipment & Safety	4	2
BGB258	Structures IV	4	2
Year 3, Semester 1			
BGB540	Estimating II	5	2.5
BGB444	Mechanical & Electrical Estimating OR Elective	4	2
ACB281	Building Financial Management I	4	2
BGB529	PM2- Quantitative Techniques	5	2.5
BGB547	PM3- Construction Planning Techniques I	5	2.5
BGB341	Building & Civil Engineering Construction	4	2
Year 3, Semester 2			
BGB543	Law 4 - Torts & Arbitrations	3	1.5
BGB301	PM1 - Advanced Construction Methods	4	2
BGB406	Building Financial Management II	4	2
BGB548	PM4 - Construction Planning Techniques II	8	4
BGB550	PM5 - Project Cost Control	6	3
Year 4, Semester 1			
CEB701	Civil Engineering Quantities I OR Elective	4	2
BGB656	Building Research*	8	4
BGB642	Applied Computer Techniques	6	3
MNB018	Industrial Relations	4	2
BGB623	PM6 - Building Development Techniques I	4	2
Year 4, Semester 2			
BGB656	Building Research*	10	5
BGB401	Building Economics & Cost Planning	4	2
BGB643	Law 5 - Commercial Law OR Elective	3	1.5
BGB624	PM7 - Building Development Techniques II	4	2
BGB606	PM8 - Land Development Studies	4	2
Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BGB151	Construction I	12	6
MAB297	Mathematics for Construction	4	2
BGB103	Material Science I	4	2
BGB143	Structures I	4	2
Year 1, Semester 2			
BGB154	Construction II	14	7
ISB180	Computer Applications	4	2
BGB104	Material Science II	4	2
BGB144	Structures II	4	2
Year 2, Semester 1			
BGB253	Construction III	10	5
CMB134	Communications	4	2
BGB247	Material Science III	4	2
BGB005	Measurement of Construction I	6	3
BGB257	Structures III	4	2
Year 2, Semester 2			
BGB254	Construction IV	12	6
BGB243	Law 1 - Building Acts & Regulations	5	2

* Subject extends over two semesters.

BGB006	Measurement of Construction II	6	3
BGB258	Structures IV	4	2
Year 3, Semester 1			
BGB013	Building Services I - HVAC	4	2
BGB341	Building & Civil Engineering Construction	4	2
BGB342	Law 2 - Principles & Property	3	1.5
MNB007	Behavioural Science	6	3
SVB101	Surveying & Measuring	4	2
BGB009	Measurement of Construction III	4	2
Year 3, Semester 2			
BGB014	Building Services II - Electrical	4	2
BGB345	Hygiene & Sanitation	6	3
BGB405	Project Equipment & Safety	4	2
SVB203	Project Survey	4	2
BGB010	Measurement of Construction IV	4	2
Year 4, Semester 1			
BGB443	Building Services III	5	2.5
BGB440	Law 3 - Building Contracts*	3	1
BGB403	Building Management I	4	2
BGB442	Valuations & Dilapidations*	4	2
BGB601	Formwork Design & Construction	4	2
BGB444	Mechanical & Electrical Estimating OR Elective	4	2
Year 4, Semester 2			
BGB440	Law 3 - Building Contracts*	3	1
BGB446	Estimating I	5	2.5
BGB404	Building Management II	4	2
BGB442	Valuations & Dilapidations*	2	1
BGB301	PM1 - Advanced Construction Methods	4	2
BGB343	Economics of the Construction Industry OR Elective	4	2
Year 5, Semester 1			
BGB540	Estimating II	5	2.5
ACB281	Building Financial Management I	4	2
BGB529	PM2 - Quantitative Techniques	5	2.5
BGB547	PM3 - Construction Planning Techniques I	5	2.5
CEB701	Civil Engineering Quantities OR Elective	4	2
Year 5, Semester 2			
BGB406	Building Financial Management II	4	2
BGB550	PM5 - Project Cost Control	6	3
BGB548	PM4 - Construction Planning Techniques II	8	4
BGB543	Law 4 - Torts & Arbitration	3	1.5
BGB401	Building Economics & Cost Planning	4	2
Year 6, Semester 1			
BGB656	Building Research*	8	4
BGB642	Applied Computer Techniques	6	3
MNB018	Industrial Relations	4	2
BGB623	PM6 - Building Development Techniques I	4	2
Year 6, Semester 2			
BGB656	Building Research*	10	5
BGB643	Law 5 - Commercial Law OR Elective	3	1.5

* Subject extends over two semesters.

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

■ Bachelor of Applied Science – Property Economics (BGJ258)

Location: Gardens Point campus

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

Total Credit Points: 299

Standard Credit Points/Full-Time Semester: 49.83

Course Coordinator: Mr Terry Boyd

Professional Recognition

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

Special Course Requirement

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

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

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

Full-Time Course Structure

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

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

Part-Time Course Structure

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

Year 1, Semester 1

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

Year 1, Semester 2

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

Year 2, Semester 1

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

* Subject extends over two semesters.

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

Year 4, Semester 1

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

Year 4, Semester 2

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

Year 5, Semester 1

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

Year 5, Semester 2

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

Year 6, Semester 1

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

Year 6, Semester 2

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

* Subject extends over two semesters.

■ Bachelor of Applied Science – Quantity Surveying (BGJ200)

Location: Gardens Point campus

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

Total Credit Points: 281

Standard Credit Points/Full-Time Semester: 46.83

Course Coordinator: Mr Don Campbell-Stewart

Professional Recognition

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

Special Course Requirement

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

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

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

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

Full-Time/Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BGB151	Construction I	12	6
CMB134	Communications	4	2
BGB342	Law 2 - Principles & Property	3	1.5
MAB297	Mathematics for Construction	4	2
SVB101	Surveying & Measuring	4	2
BGB442	Valuations & Dilapidations*	4	2
BGB103	Material Science I	4	2
BGB143	Structures I	4	2
ACB281	Building Financial Management I	4	2
Year 1, Semester 2			
BGB154	Construction II	14	7
BGB345	Hygiene & Sanitation	6	3
BGB343	Economics of the Construction Industry	4	2
BGB131	Measurement of Construction IA	6	3
ISB180	Computer Applications	4	2
BGB442	Valuations & Dilapidations*	2	1
BGB104	Material Science II	4	2
BGB144	Structures II	4	2

* Subject extends over two semesters.

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

Year 4, Semester 1

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

Year 4, Semester 2

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

Part-Time Course Structure

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

Year 1, Semester 1

BGB151	Construction I	12	6
MAB297	Mathematics for Construction	4	2

* Subject extends over two semesters.

BGB103	Material Science I	4	2
BGB143	Structures I	4	2
Year 1, Semester 2			
BGB154	Construction II	14	7
ISB180	Computer Applications	4	2
BGB104	Material Science II	4	2
BGB144	Structures II	4	2
Year 2, Semester 1			
BGB253	Construction III	10	5
CMB134	Communications	4	2
BGB005	Measurement of Construction I	6	3
BGB247	Material Science III	4	2
Year 2, Semester 2			
BGB254	Construction IV	12	6
BGB243	Law I - Building Acts & Regulations	5	2
BGB006	Measurement of Construction II	6	3
Year 3, Semester 1			
BGB013	Building Services I -HVAC	4	2
BGB341	Building & Civil Engineering Construction	4	2
BGB342	Law 2 - Principles & Property	3	1.5
BGB442	Valuations & Dilapidations*	4	2
SVB101	Surveying & Measuring	4	2
BGB009	Measurement of Construction III	4	2
Year 3, Semester 2			
BGB014	Building Services II - Electrical	4	2
BGB343	Economics of the Construction Industry OR Elective	4	2
BGB345	Hygiene & Sanitation	6	3
BGB442	Valuations & Dilapidations*	2	1
BGB520	Specification	3	1.5
BGB010	Measurement of Construction IV	4	2
Year 4, Semester 1			
BGB443	Building Services III	5	2.5
BGB440	Law 3 - Building Contracts*	3	1
CEB701	Civil Engineering Quantities I	4	2
BGB403	Building Management I	4	2
BGB451	Computer Software Applications I	4	2
BGB461	Measurement of Construction V	3	1.5
Year 4, Semester 2			
BGB440	Law 3 - Building Contracts*	3	1
CEB801	Civil Engineering Quantities II	3	1.5
BGB446	Estimating I	5	2.5
BGB404	Building Management II	4	2
BGB301	PM1 - Advanced Construction Methods	4	2
BGB462	Measurement of Construction VI	3	1.5
Year 5, Semester 1			
BGB540	Estimating II	5	2.5
ACB281	Building Financial Management I	4	2
BGB529	PM2 - Quantitative Techniques	5	2.5
BGB547	PM3 - Construction Planning Techniques I	5	2.5
BGB444	Mechanical & Electrical Estimating OR Elective	4	2

* Subject extends over two semesters.

Year 5, Semester 2

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

Year 6, Semester 1

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

Year 6, Semester 2

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

■ Bachelor of Architecture (ARJ192)

Location: Gardens Point campus

Course Duration: 6 years part-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Assoc. Professor Bill Lim

Professional Recognition

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

Special Course Requirements

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

* Subject extends over two semesters.

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

* Subject extends over two semesters.

Year 5, Semester 1

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

Year 5, Semester 2

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

Year 6, Semester 1

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

Year 6, Semester 2

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

Approved Employment Subjects

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

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

Attendance Requirement

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

Field Trips

Field trips or field projects have a compulsory attendance requirement.

Honours and With Distinction

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

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

Honours Based on Honours Index

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

* Subject extends over two semesters.

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

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

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

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

With Distinction Based on the With Distinction Index

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

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

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

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

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

Honours and With Distinction Based on Grade Point Average

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

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

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

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

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

Special notes relating to Bachelor of Engineering courses

Industrial Experience

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

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

The student must submit an industrial experience record form which has been completed by both the student and the employer. These forms are available from outside Room 'O' 610. In addition Civil Engineering students must submit written report(s) covering the experience claimed for Industrial Experience II and Industrial Experience III. A booklet outlining the requirements is available from the Civil Engineering office in 'L' Block.

Exemptions

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

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

■ Bachelor of Applied Science – Surveying (SVJ159)*

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 288

* See *Special Notes*, page 243.

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Bruce Chapman

Professional Recognition

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

Special Course Requirement

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

Full-Time Course Structure

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

At the end of Year 1, Semester 2, students must select either the Surveying or Cartography Major and must obtain vacation practice in that area.

SURVEYING MAJOR

Year 2, Semester 1

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

Year 2, Semester 2

SVB430 Land Surveying IV	9	4
SVB442 Geodetic Computations	9	4
SVB343 Photogrammetry I	6	3
CEB364 Engineering Science II	6	3
SVB431 Observations & Adjustments II	4	2
SVB574 Land Administration IV	4	2

* Subject extends over two semesters.

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

Year 3, Semester 1

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

Year 3, Semester 2

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

CARTOGRAPHY MAJOR

Year 2, Semester 1

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

Year 2, Semester 2

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

Year 3, Semester 1

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

Year 3, Semester 2

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

* Subject extends over two semesters.

Electives

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

■ Bachelor of Engineering – Civil (CEJ156)***Location:** Gardens Point campus**Course Duration:** 4 years full-time, 6 years part-time**Total Credit Points:** 384**Standard Credit Points/Full-Time Semester:** 48**Course Coordinator:** Dr Rod Troutbeck**Professional Recognition**

Membership: The Institution of Engineers, Australia

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

* See Special Notes, page 243.

+ Subject extends over two semesters.

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

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

Year 2, Semester 2+

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

Year 3, Semester 1

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

Year 3, Semester 2

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

Year 4, Semester 2

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

Electives

FIRST SEMESTER

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

* Subject extends over two semesters.

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

CEB512	Transport Engineering I	6	3
CEB503	Advanced Construction Methods	6	3
CEB501	Civil Engineering Practice I	6	3

SECOND SEMESTER

CEB520	Finite Element Methods	6	3
CEB532	Concrete & Masonry Structures	6	3
CEB542	Geotechnical Engineering III	6	3
CEB560	Hydraulic Engineering III	6	3
CEB570	Public Health Engineering III	6	3
CEB511	Transport Engineering II	6	3
CEB505	Project Management & Administration	6	3
CEB506	Civil Engineering Practice II	6	3

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

Part-Time Course Structure

Year 1, Semester 1

PHB132	Engineering Physics IA	6	3
MAB193	Engineering Mathematics I*	6	3
CEB102	Civil Engineering I	3	1.5
CEB184	Engineering Mechanics I	7	3
MEB121	Engineering Graphics	6	3
MEB171	Introduction to Manufacturing	3	1.5
CHB002	Introduction to Engineering Chemistry+	(2)	(1)

Year 1, Semester 2

PHB232	Engineering Physics IIA	6	3
MAB193	Engineering Mathematics I*	6	3
CEB185	Engineering Mechanics II	7	3
MEB133	Materials I	6	3
MEB111	Dynamics	7	3
CEB192	Industrial Experience I		5 weeks

Year 2, Semester 1

MAB493	Engineering Mathematics II*	6	3
CSB191	Introduction to Computing	4	2
CEB291	Civil Engineering Materials	7	3
CEB231	Concrete Technology	7	3
CMB108	English for Technologists	6	3

Year 2, Semester 2

MAB493	Engineering Mathematics II*	6	3
CSB291	Introduction to FORTRAN	4	2
SVB306	Surveying	8	3
CEB253	Structural Engineering I	5	3
CEB281	Strength of Materials	5	2
CEB282	Statics	2	1
CEB404	Field Trip	3	1.5

Year 3, Semester 1

MAB893	Engineering Mathematics III	6	3
CEB201	Steel Structures*	4	1.5
CEB202	Concrete Structures I*	4	1.5
ESB519	Geology for Engineers	6	3
CEB260	Fluid Mechanics	7	3
CEB307	Construction Practice	6	3

* Subject extends over two semesters.

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

Year 3, Semester 2

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

Year 4, Semester 1

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

Year 4, Semester 2

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

Year 5, Semester 1

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

Year 5, Semester 2

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

Year 6, Semester 1

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

Year 6, Semester 2

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

Electives

Refer to Full-time Course Structure.

* Subject extends over two semesters.

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

Location: Gardens Point campus

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

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr David Birtwhistle

Professional Recognition

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

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

* See Special Notes, page 243.

+ Subject extends over two semesters.

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

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

Year 3, Semester 1

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

Year 3, Semester 2

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

Year 4, Semester 1

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

Year 4, Semester 2

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

General Electives

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

* Subject extends over two semesters.

Technical Electives

EEB962	Microwave Systems Engineering	7	3
EEB961	Communications Techniques	7	3
EEB761	Statistical Communications	7	3
MAB920	Coding & Encryption Techniques	12	3
EEB972	Integrated Electronic Techniques	7	3
EEB922	Computer Controlled Systems	7	3
EEB951	High Voltage Equipment	7	3
EEB944	Power Station Engineering	7	3
EEB954	Electrical Energy Utilisation	7	3

OR

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

Part-Time Course Structure

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

Year 1, Semester 1

MAB193	Engineering Mathematics I*	6	3
CSB191	Introduction to Computing	4	2
PHB132	Engineering Physics IA	6	3
MEB121	Engineering Graphics	6	3
EEB101	Circuits & Measurements	7	3
CHB002	Introduction to Engineering Chemistry+	(2)	(1)

Year 1, Semester 2

MAB193	Engineering Mathematics I*	6	3
PHB232	Engineering Physics IIA	6	3
CSB291	Introduction to FORTRAN	4	2
EEB203	Circuit Analysis	5	3
EEB371	Electronic Devices	5	3
EEB272	Digital Principles	3	1.5
EEB206	Industrial Experience I		5 weeks

Year 2, Semester 1

MAB493	Engineering Mathematics II*	6	3
EEB303	Network Theory I	7	3
EEB361	Signals & Systems	7	3
CMB108	English for Technologists	6	3
EEB471	Electronics	7	3

Year 2, Semester 2

EEB202	Electromagnetics	6	3
MAB493	Engineering Mathematics II*	6	3
EEB401	Network Theory II	6	3
MEB133	Materials I	6	3
MEB111	Dynamics	7	3
EEB406	Industrial Experience II		5 weeks

Year 3, Semester 1

CEB102	Civil Engineering I	3	1.5
EEB372	Sequential Logic	7	3
CEB184	Engineering Mechanics I	7	3
MAB893	Engineering Mathematics III	6	3
EEB302	Electrotechnology	6	3
CMB135	Communication for Engineers	2	1

* Subject extends over two semesters.

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

Year 3, Semester 2

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

Year 4, Semester 1

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

Year 4, Semester 2

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

Year 5, Semester 1

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

Year 5, Semester 2

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

Year 6, Semester 1

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

Year 6, Semester 2

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

Electives

Refer to Full-time Course Structure.

* Subject extends over two semesters.

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

Location: Gardens Point campus

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

Total Credit Points: 384

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr R. Nicol/Dr D. Hargreaves

Professional Recognition

Membership: The Institution of Engineers, Australia

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

* See Special Notes, page 243.

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

Subject extends over two semesters.

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

Year 3, Semester 1

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

Year 3, Semester 2

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

Year 4, Semester 1

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

Year 4, Semester 2

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

Electives

GROUP A

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

GROUP B

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

GROUP C

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

* Subject extends over two semesters.

GROUP D			
MEB977	Computer Control of Manufacturing Systems	7	3
MEB980	Design of Power Transmission Systems	7	3
MEB701	Special Topic III	7	3
GROUP E			
MEB975	Design of Manufacturing Systems	7	3
MEB960	Fluid System Design	7	3
MEB810	Industrial Noise & Vibration	7	3
MEB800	Special Topic IV	7	3
Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MEB121	Engineering Graphics	6	3
CEB184	Engineering Mechanics I	7	3
MAB193	Engineering Mathematics I*	6	3
PHB132	Engineering Physics IA	6	3
CMB108	English for Technologists	6	3
CHB002	Introduction to Engineering Chemistry+	(2)	(1)
Year 1, Semester 2			
MEB133	Materials I	6	3
CEB185	Engineering Mechanics II	7	3
MAB193	Engineering Mathematics I*	6	3
MEB111	Dynamics	7	3
CHB344	Engineering Chemistry M	4	2
MEB200	Industrial Experience I		5 weeks
Year 2, Semester 1			
MEB230	Materials II	6	3
CSB191	Introduction to Computing	4	2
MAB493	Engineering Mathematics II*	6	3
EEB101	Circuits & Measurements	7	3
MEB171	Introduction to Manufacturing	3	1.5
CEB102	Civil Engineering I	3	1.5
Year 2, Semester 2			
MEB101	Design I	8	3
CSB291	Introduction to FORTRAN	4	2
MAB493	Engineering Mathematics II*	6	3
EEB202	Electromagnetics	6	3
EEB273	Microcomputers in Engineering	4	2
	ONE Group A Elective Subject	4	2
Year 3, Semester 1			
MEB313	Mechanics I	6	3
MEB361	Fluids I	6	3
MEB250	Thermodynamics I	6	3
MAB893	Engineering Mathematics III	6	3
MEB773	Design for Manufacturing I	7	3
Year 3, Semester 2			
MEB231	Materials III	6	3
MEB411	Theory of Machines	7	3
MEB462	Fluids II	6	3
MEB251	Thermodynamics II	6	3

* Subject extends over two semesters.

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

MEB463	Tribology	6	3
MEB300	Industrial Experience II		5 weeks

Year 4, Semester 1

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

Year 4, Semester 2

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

Year 5, Semester 1

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

Year 5, Semester 2

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

Year 6, Semester 1

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

Year 6, Semester 2

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

Electives

Refer to Full-Time Course Structure.

■ Associate Diploma in Cartography (SVL212)+

Location: Gardens Point campus

Course Duration: 4 years part-time

Total Credit Points: 192

* Subject extends over two semesters.

+ See Special Notes, page 243.

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Basil Pathe

Professional Recognition

Membership: Associate, Australian Institute of Cartographers

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

■ **Associate Diploma in Civil Engineering (CEL187)***

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

* See *Special Notes*, page 243.

Location: Gardens Point campus

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Robin Black

Professional Recognition

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

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

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

Part-Time Course Structure

Part-time students shall have engaged in at least 120 weeks of approved employment, ie, 15 weeks for each of the eight Industrial Employment subjects, before being eligible for the Associate Diploma award. For the employment to be recognised, students must submit an industrial experience record form, provided for the purpose, which has been completed by both the student and the employer. These forms may be collected from outside Room 'O' 610.

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

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

List B Subjects

FIRST SEMESTER

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

SECOND SEMESTER

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

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

FIRST SEMESTER

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

SECOND SEMESTER

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

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

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

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

WATER AND WASTEWATER PROCESS OPERATION MAJOR

(The first four semesters are common to the General Major.)

Year 3, Semester 1

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

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

Year 3, Semester 2

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

Year 4, Semester 1

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

Year 4, Semester 2

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

■ Associate Diploma in Electrical Engineering* (EEL188)

Location: Gardens Point campus

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr John Edwards

Professional Recognition

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

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

			Credit Points	Contact Hrs/Wk
COMPUTER SYSTEMS MODULE				
EET590	Microprocessor Systems	(a)+	7	3
EET690	Computer Organisation	(b)	7	3
EET791	Computer Programming II	(c)	7	3
EET891	Advanced Computing Techniques	(d)	7	3
INDUSTRIAL SYSTEMS MODULE				
EET522	Control Systems II	(a)	7	3
EET678	Applied Electronics	(b)	7	3
EET720	Modern Control Technology	(c)	7	3
EET870	Industrial Electronics	(d)	7	3
POWER MODULE				
EET642	Electrical Power Systems I	(a)	7	3
EET650	Electrical Equipment	(b)	7	3
EET753	Testing & Commissioning			
	Techniques	(c)	7	3
EET840	Substations & Protection Systems	(d)	7	3
TELECOMMUNICATIONS MODULE				
EET560	Communications Engineering I	(a)	7	3
EET737	Transmission & Propagation	(b)	7	3
EET760	Communications Engineering II	(c)	7	3
EET860	Communications Technology	(d)	7	3

Full-Time/Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
EET111	Electrical Engineering I	7	3
EET211	Electrical Engineering II	7	3

* See *Special Notes*, page 243.

+ See *Notes*, page 266.

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

Year 1, Semester 2

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

Year 2, Semester 1

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

Year 2, Semester 2

MET600	Materials for Electrical Engineers	4	1.5
MET601	Mechanical Plant	3	1.5
	Major 1	(b) 7	3
	Major 2	(b) 7	3
ENT600	Industrial Employment VI	3	15 weeks

Year 3, Semester 1

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

Year 3, Semester 2

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

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

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

Part-Time Course Structure

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

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

Notes

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

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

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

■ Associate Diploma in Mechanical Engineering (MEL189)*

Location: Gardens Point campus

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Richard Hall

Professional Recognition

Membership: Australian Institute of Engineering Associates

Institute for Drafting and Design, Australia (Queensland Division)

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

* See Special Notes, page 243.

Year 2, Semester 2

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

Electives

FIRST SEMESTER

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

SECOND SEMESTER

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

Notes

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

Part-Time Course Structure

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

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

Electives

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

FACULTY OF BUSINESS

FACULTY OF BUSINESS

Gardens Point campus

Course Structures

■ Master of Business with Majors in Accountancy, Communication and Management (BSN218)

Location: Gardens Point campus

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

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 and Research 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 and Research Committee.

A provisional registrant may be required to undertake a qualifying program and/or such other work as the Graduate Studies and Research 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 Coordinator, students may choose to undertake some electives from the various masters degrees offered in the Business area at the University of Queensland or Griffith University.

* 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 experience, subject to the approval of the Graduate Studies and Research Committee.

ACCOUNTANCY MAJOR

Coordinator for Accountancy Major: Mr John Polichronis

Course Requirements

Students are required to complete satisfactorily 14 subjects and a dissertation. The dissertation ACN950 is equivalent to two subjects.

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 14 subjects must include:

- (a) ACN114 Accounting Research;
- (b) a minimum of six Group A subjects from Lists 1, 2 and 3;
- (c) within the 14 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 postgraduate subjects offered within the Queensland University of Technology or elsewhere, subject to the approval of the Head, School of Accountancy.

Subjects with code numbers beginning with ACN8 or ACP may not be counted for credit towards the Master of Business (Accountancy Major), the Graduate Diploma in Advanced Accounting or the Bachelor of Business – Accountancy (Honours).

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. Each student is required to present a seminar to the Graduate Studies and Research Committee on the proposed dissertation topic in the semester prior to enrolment in ACN950.

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

Group A

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

Group B

ACN112	Advanced Company Accounting
ACN121	Computer Auditing
ACN122	Audit Sampling
ACN123	Internal Auditing
ACN125	Auditing Standards & Practice
ACN126	Financial Reporting

List 2

MANAGERIAL ACCOUNTING/FINANCE

Group A

ACN151	Finance Honours
ACN153	International Finance

Group B

ACN152	Advanced Capital Budgeting
ACN155	Financial Modelling

ACN156	Financial Risk Management	ACN233	Managerial Accounting Issues B
ACN231	Managerial Accounting Honours	ACN998	Special Topic - Managerial Accounting/Finance
ACN232	Managerial Accounting Issues A		

List 3

COMMERCIAL LAW

Group A

ACN172	International Taxation
ACN174	Liquidations & Receiverships
ACN175	Commercial Law Honours
ACN177	Taxation Policy Honours

Group B

ACN119	Company Secretarial Practice
ACN171	Advanced Taxation
ACN176	Indirect Taxation
ACN178	Tax Planning
ACN997	Special Topic - Commercial Law

COMMUNICATION MAJOR

Coordinator for Communication Major: Dr Phil Crowe

Course Requirements

Students must complete 12 subjects plus a thesis (192 credit points in total).

Students may specialise in either Communication Management or Communication Studies in the second year of the full-time program or in the third year of the part-time program.

Full-Time Course Structure

Credit Points

Year 1, Semester 1

CMP402	Communication Theory 2	12
CMP403	Communication Research Methodologies	12
CMP408	Communication Technologies & Society	12

One of the following subjects:

CMP500	Advanced Communication Seminar	12
CMP404	Advertising Seminar	12
CMP405	Journalism Seminar	12
CMP406	Public Relations Seminar	12

Year 1, Semester 2

CMP401	Communication Theory 1	12
CMP407	Communication Policy Environment	12
CMP409	Dissertation	24

Year 2, Semester 1

IFN001	Advanced Information Retrieval Skills	4
CMN832	Research Colloquium	8

EITHER

COMMUNICATION STUDIES SPECIALISATION

CMN811	Communication & Culture	12
CMN810	Communication & Society	12
CMN825	Australian Communication Contexts	12

OR

COMMUNICATION MANAGEMENT SPECIALISATION

CMN813	Communication Strategies	12
CMN821	Advanced Organisational Communication	12
CMN823	Current Issues in Communication	12

Year 2, Semester 2

CMN950	Thesis	48
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Part-Time Course Structure	Credit Points
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Year 1, Semester 1

CMP402	Communication Theory 2	12
CMP408	Communication Technologies & Society	12

Year 1, Semester 2

CMP401	Communication Theory 1	12
CMP407	Communication Policy Environment	12

Year 2, Semester 1

CMP403	Communication Research Methodologies	12
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One of the following subjects:

CMP404	Advertising Seminar	12
CMP405	Journalism Seminar	12
CMP406	Public Relations Seminar	12
CMP500	Advanced Communication Seminar	12

Year 2, Semester 2

CMP409	Dissertation	24
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Year 3, Semester 1

IFN001	Advanced Information Retrieval Skills	4
CMN832	Research Colloquium	8

EITHER

COMMUNICATION STUDIES SPECIALISATION		
CMN811	Communication & Culture	12

OR

COMMUNICATION MANAGEMENT SPECIALISATION		
CMN813	Communication Strategies	12

Year 3, Semester 2

EITHER

COMMUNICATION STUDIES SPECIALISATION		
CMN825	Australian Communication Contexts	12
CMN810	Communication & Society	12

OR

COMMUNICATION MANAGEMENT SPECIALISATION		
CMN821	Advanced Organisational Communication	12
CMN823	Current Issues in Communication	12

Year 4, Semester 1

CMN950	Thesis*	24
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Year 4, Semester 2

CMN950	Thesis*	24
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DISSERTATION (CMN409)

This will comprise a research-based report of not more than 10,000 words based on secondary research.

THESIS (CMN950)

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.

* Subject extends over two semesters.

The student 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 thesis in that area.

The student, in consultation with the staff member, should develop a formal thesis proposal. The student and relevant staff member will present the proposal to the Communication Graduate Board of Studies in the semester before the student commences the thesis. 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. Students undertaking a thesis must comply with the requirement of the Communication Graduate Board of Studies in terms of progression and presentation.

The Communication Graduate Board of Studies may appoint an associate supervisor with expertise in a methodology or specific knowledge of the 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.

Transitional Arrangements

Any masters students who are currently enrolled and who have not completed Mass Communication A and Mass Communication B will be permitted to take Communication Theory 1 and Communication Theory 2 from the restructured masters course instead of Mass Communication A and Mass Communication B. Other coursework subjects must be chosen in consultation with the Head of School or his/her nominee.

MANAGEMENT MAJOR

Coordinator for Management Major: Mr Peter Carroll

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.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MNN805	Current Issues in Australian Management A	12	3
MNN806	Current Issues in Australian Management B	12	3
MNN811	Policy Analysis	12	3
	Elective	12	3
Year 1, Semester 2			
MNN807	Research Design & Data Analysis	12	3
MNN808	Management, Technology & Social Change	12	3
MNN812	Organisational Psychology	12	3
MNN813	Advanced Marketing Management	12	3
Year 2, Semester 1			
MNN814	Organisational Economics	12	3
MNN815	Case Study Program	12	4
MNN816	Initial Project in Management	12	3
MNN820	Applied Research & Design	12	3

Year 2, Semester 2

MNN830	Project & Seminar A	12	3
MNN831	Project & Seminar B	24	
	Elective, or approved special topic	12	3

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

MNN805	Current Issues in Australian Management A	12	3
MNN806	Current Issues in Australian Management B	12	3

Year 1, Semester 2

MNN807	Research Design & Data Analysis	12	3
MNN808	Management, Technology & Social Change	12	3

Year 2, Semester 1

	Elective	12	3
MNN811	Policy Analysis	12	3

Year 2, Semester 2

MNN812	Organisational Psychology	12	3
MNN813	Advanced Marketing Management	12	3

Year 3, Semester 1

MNN814	Organisational Economics	12	3
MNN815	Case Study Program	12	3

Year 3, Semester 2

	Elective, or approved special topic	12	3
MNN816	Initial Project in Management	12	3

Year 4, Semester 1

MNN830	Project & Seminar A	12	3
MNN820	Applied Research & Design	12	3

Year 4, Semester 2

MNN831	Project & Seminar B	24	
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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 Coordinator and the Management Graduate Studies Board, one of the major subjects may be substituted by an honours or 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.

■ Master of Business Administration (MNN246)

Location: Gardens Point campus

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

The Master of Business Administration is a postgraduate degree in business administration, designed for non-business graduates.

The Master of Business Administration program includes two majors – Management and Accounting.

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 of 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.

Coordinator for Management Major: Dr Alan Williams

Coordinator for Accounting Major: Mr John Polichronis

MANAGEMENT MAJOR Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MNN100	Introduction to Management	12	3
ACN813	Accounting Principles	12	3
MNN106	Managerial Economics	12	3
MNN204	Marketing Methods & Practices	12	3
Year 1, Semester 2			
MNN202	Decision Support Systems	12	3
MNN203	Government-Business Relations	12	3
ACN834	Business Law & Ethics	12	3
MNN302	People in Organisations	12	3
Year 2, Semester 1			
MNN201	Labour-Management Relations	12	3
	Elective	12	3
	Elective	12	3
	Elective	12	3
Year 2, Semester 2			
MNN403	Business Policy	12	3
	Elective	12	3
	Elective	12	3
	Elective	12	3

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MNN100	Introduction to Management	12	3
ACN813	Accounting Principles	12	3
Year 1, Semester 2			
MNN202	Decision Support Systems	12	3
MNN203	Government-Business Relations	12	3
Year 2, Semester 1			
MNN106	Managerial Economics	12	3
MNN204	Marketing Methods & Practices	12	3
Year 2, Semester 2			
MNN302	People in Organisations	12	3
ACN234	Business Law & Ethics	12	3
Year 3, Semester 1			
MNN201	Labour-Management Relations	12	3
	Elective	12	3
Year 3, Semester 2			
MNN403	Business Policy	12	3
	Elective	12	3
Year 4, Semester 1			
	Elective	12	3
	Elective	12	3
Year 4, Semester 2			
	Elective	12	3
	Elective	12	3
ACCOUNTANCY MAJOR			
Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MNN100	Introduction to Management	12	3
ACN810	Financial Accounting I	12	3
MNN106	Managerial Economics	12	3
MNN204	Marketing Methods & Practices	12	3
Year 1, Semester 2			
MNN203	Government-Business Relations	12	3
MNN202	Decision Support Systems	12	3
	Elective	12	3
ACN834	Business Law & Ethics	12	3
Year 2, Semester 1			
ACN835	Managerial Finance	12	3
MNN302	People in Organisations	12	3
	Elective	12	3
	Elective	12	3

Year 2, Semester 2

MNN403	Business Policy	12	3
	Elective	12	3
	Elective	12	3
	Elective	12	3

Part-Time Course Structure

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

Year 1, Semester 1

MNN100	Introduction to Management	12	3
ACN810	Financial Accounting I	12	3

Year 1, Semester 2

MNN203	Government-Business Relations	12	3
MNN202	Decision Support Systems	12	3

Year 2, Semester 1

MNN106	Managerial Economics	12	3
MNN204	Marketing Methods & Practices	12	3

Year 2, Semester 2

	Elective	12	3
ACN834	Business Law & Ethics	12	3

Year 3, Semester 1

ACN835	Managerial Finance	12	3
MNN302	People in Organisations	12	3

Year 3, Semester 2

MNN403	Business Policy	12	3
	Elective	12	3

Year 4, Semester 1

	Elective	12	3
	Elective	12	3

Year 4, Semester 2

	Elective	12	3
	Elective	12	3

Incompatible Subjects

Note that ACN813 Accounting Principles is incompatible with ACN810 Financial Accounting I.

Electives

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. Please consult your School for a list of electives available in 1991.

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 subject MNN404 Applied Research Project, which may be taken as an elective, 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.

■ Graduate Diploma in Advanced Accounting (ACM174)

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr John Polichronis

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

PUBLIC ACCOUNTING

ACN111	Financial Accounting Honours	ACN123	Internal Auditing
ACN112	Advanced Company Accounting	ACN125	Auditing Standards & Practice
ACN118	International Accounting	ACN126	Financial Reporting
ACN121	Computer Auditing	ACN127	External Reporting Issues
ACN122	Audit Sampling	ACN999	Special Topic - Public Accounting

List 2

MANAGERIAL ACCOUNTING/FINANCE

ACN151	Finance Honours	ACN231	Managerial Accounting Honours
ACN152	Advanced Capital Budgeting	ACN232	Managerial Accounting Issues A
ACN153	International Finance	ACN233	Managerial Accounting Issues B
ACN155	Financial Modelling	ACN998	Special Topic - Managerial Accounting/Finance
ACN156	Financial Risk Management		

List 3

COMMERCIAL LAW

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

List 4

MANAGEMENT

MNN203	Government Business Relations	MNN302	People in Organisations
MNN204	Marketing Methods & Practices	MNN403	Business Policy

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 QUT 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.

■ Graduate Diploma in Business Administration (MNM155)

Location: Gardens Point campus

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.

■ Graduate Diploma in Communication Practice (CMM244)

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Phil Crowe

Entry Requirements

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 and 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 undergraduate major. These students will take CMP402 Communication Theory II instead of CMB014 Writing and Communication Theory.

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.

Course Requirements

To complete the Graduate Diploma course, students must complete two communication theory subjects, four major subjects and two electives.

The course structures below set out a recommended sequence of subjects for each major. Other subjects may be selected for a major in place of the subjects listed, provided that prerequisites are met and the selection is approved by the relevant coordinator.

Electives should be chosen in consultation with the relevant coordinator.

ADVERTISING MAJOR

Full-Time Course Structure

Credit Points

Semester 1

CMB014	Writing & Communication Theory	12
CMB241	Introduction to Advertising	12
CMB363	Advertising Copywriting - Print	12
CMB541	Media Strategy	12

Semester 2

CMP401	Communication Theory I	12
CMB544	Direct Response Advertising	12
	Elective	12
	Elective	12

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

CMB014	Writing & Communication Theory	12
CMP241	Introduction to Advertising	12

Year 1, Semester 2

CMB401	Communication Theory I	12
CMB363	Advertising Copywriting - Print	12

Year 2, Semester 1

CMB541	Media Strategy	12
	Elective	12

Year 2, Semester 2

CMB544	Direct Response Advertising	12
	Elective	12

FILM AND TELEVISION PRODUCTION MAJOR**Full-Time Course Structure****Credit Points****Semester 1**

CMB014	Writing & Communication Theory	12
CMB163	Introduction to Audio-visual Communication	12
CMB464	Video Production Techniques	12
CMB561	Film & Television Scriptwriting	12

Semester 2

CMP401	Communication Theory I	12
CMB592	Video Documentary Production	12
	Elective	12
	Elective	12

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

CMB014	Writing & Communication Theory	12
CMB163	Introduction to Audio-visual Communication	12

Year 1, Semester 2

CMB464	Video Production Techniques	12
CMB401	Communication Theory I	12

Year 2, Semester 1

CMB561	Film & Television Scriptwriting	12
	Elective	12

Year 2, Semester 2

CMB592	Video Documentary Production	12
	Elective	12

FUNDRAISING MAJOR**Full-Time Course Structure****Credit Points****Semester 1**

CMB014	Writing & Communication Theory	12
CMP352	Fundraising Principles	12
MNB253	Introductory Marketing	12
	Elective	12

Semester 2

CMP401	Communication Theory I	12
CMP590	Fundraising Campaigns	12
CMB544	Direct Response Advertising	12
	Elective	12

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

CMB014	Writing & Communication Theory	12
CMP352	Fundraising Principles	12

Year 1, Semester 2

CMP401	Communication Theory I	12
MNB253	Introductory Marketing	12

Year 2, Semester 1

CMB544	Direct Response Advertising	12
	Elective	12

Year 2, Semester 2

CMP590	Fundraising Campaigns	12
	Elective	12

JOURNALISM MAJOR**Full-Time Course Structure****Credit Points****Semester 1**

CMB014	Writing & Communication Theory	12
CMP110	Journalistic Writing	12
CMB673	Journalism Ethics & Issues	12
	Elective	12

Semester 2

CMB462	Magazine & Feature Writing	12
CMB371	Sub-editing & Layout	12
CMP401	Communication Theory 1	12
	Elective	12

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

CMB014	Writing & Communication Theory	12
CMP110	Journalistic Writing	12

Year 1, Semester 2

CMB462	Magazine & Feature Writing	12
CMP401	Communication Theory 1	12

Year 2, Semester 1

CMP401	Communication Theory I	12
CMB673	Journalism Ethics & Issues	12
	Elective	12

Year 2, Semester 2

CMB371	Sub-Editing & Layout	12
	Elective	12

ORGANISATIONAL COMMUNICATION MAJOR

Full-Time Course Structure

Credit Points

Semester 1

CMB014	Writing & Communication Theory	12
CMB012	Speech Communication	12
CMB321	Communication in Small Groups	12
	Elective	12

Semester 2

CMB307	Advanced Professional Writing	12
CMP125	Organisational Communication	12
CMP401	Communication Theory 1	12
	Elective	12

Part-Time Course Structure

Credit Points

Year 1, Semester 1

CMB014	Writing & Communication Theory	12
CMB321	Communication in Small Groups	12

Year 1, Semester 2

CMP401	Communication Theory I	12
CMB012	Speech Communication	12

Year 2, Semester 1

	Elective	12
	Elective	12

Year 2, Semester 2

CMP125	Organisational Communication	12
CMB307	Advanced Professional Writing	12

PUBLIC RELATIONS MAJOR

Full-Time Course Structure

Credit Points

Semester 1

CMB014	Writing & Communication Theory	12
CMB452	Introduction to Public Relations	12
CMB552	Publicity & Promotion - Print	12
	Elective	12

Semester 2

CMP401	Communication Theory I	12
CMB451	Industrial Press	12
CMB651	Advanced Public Relations	12
	Elective	12

Part-Time Course Structure

Credit Points

Year 1, Semester 1

CMB014	Writing & Communication Theory	12
CMB452	Introduction to Public Relations	12

Year 1, Semester 2

CMB552	Publicity & Promotion - Print	12
CMP401	Communication Theory I	12

Year 2, Semester 1

CMB451	Industrial Press	12
	Elective	12

Year 2, Semester 2

CMB651	Advanced Public Relations
	Elective

12
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.

■ Bachelor of Business (Accountancy) with Honours (ACJ259)

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr John Polichronis

Entry Requirements

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

- (i) a QUT Bachelor of Business – Accountancy degree or equivalent and should have attained a Grade Point Average (GPA) of at least 5.0 over that degree, including grades of at least credit in all subjects directly relevant to the proposed honours program. Application for admission should normally be made at the end of the final year of the pass degree, or within 18 months of completing that degree.

Applicants who do not satisfy the above conditions but who have demonstrated outstanding performance in only the final year of a degree, or whose application is based on other factors including work experience or involvement in research, may be admitted at the discretion of the Dean.

Course Requirements

		Credit Points	Contact Hrs/Wk
Core Subjects			
ACN111	Financial Accounting Honours	12	3
ACN151	Finance Honours	12	3
ACN231	Managerial Accounting Honours	12	3
ACN114	Accounting Research	12	3
ACN950	Dissertation	24	

Elective Subjects*

Select two:

ACN124	Auditing Honours	12	3
ACN177	Taxation Policy Honours	12	3
ACN175	Commercial Law Honours	12	3
or any ACN coded subject from the Master of Business - Accountancy program			

* Subjects with code numbers beginning with ACN8 or ACP may not be taken as electives in the honours program.

■ Special requirements for all degree courses in the Faculty of Business, Gardens Point campus

- 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 Years 1 and 2 in the first two years of study.
- Except with the approval of the Dean, a student must enrol for more than one subject in any semester.

■ Bachelor of Business – Accountancy (ACJ151)

Location: Gardens Point campus

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

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Professional Recognition

Students completing the Bachelor 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 Certified Practising Accountants (ASCPA); Institute of Chartered Accountants in Australia (ICA); Public Accountants Registration Board (PARB); Companies Auditors Board (CAB); Tax Agents Registration Board (TARB); Australian Institute of Bankers (AIB); Australian Computer Society (ACS). The degree is also recognised for undergraduate membership by the Institute of Chartered Secretaries and Administrators (ICSA) and also the Institute of Corporate Managers, Secretaries and Administrators (ICMSA).

To satisfy the academic requirements for Associate level membership of the ASCPA, graduates must have completed the Accounting Major, the Business Computing Major, or the Banking and Finance Major.

To satisfy the academic requirements for CPA level membership of the ASCPA and membership of the ICA, graduates must complete the Accounting Major; or complete the Business Computing Major, and then undertake a further subject ACB340 Taxation Law and Practice; or complete the Banking and Finance Major, including ACB311 Auditing as an elective.

Students wishing to satisfy the academic requirements of the Australian Institute of Bankers for Senior Associate status must include the subjects:

ACB345	Financial Institutions - Law
ACB350	Financial Institutions - Lending
ACB351	Financial Institutions - Management.

Three years' practical banking experience is also required.

**ACCOUNTING MAJOR
Full-Time Course Structure**

**Credit
Points**

**Contact
Hrs/Wk**

Year 1, Semester 1

ACB110	Accounting I	12	4
ISB392	Business Computing	12	4
MNB151	Microeconomic Analysis	12	3
MAB173	Quantitative Methods	12	3

Year 1, Semester 2

ACB115	Accounting II	12	4
ACB140	Business Law	12	4
MNB251	Macroeconomic Analysis	12	3
MNB252	Business Statistics	12	3

Year 2, Semester 1

ISB492	Computerised Accounting Systems	12	4
ACB240	Law of Business Associations	12	4
ACB212	Company Accounting	12	4
CMB105	Business Communication	12	3

Year 2, Semester 2

MNB412	Management & Organisations	12	3
ACB230	Financial Management I	12	4
ACB220	Cost Accounting	12	4
	Elective for major	12	3-4

Year 3, Semester 1

ACB340	Taxation Law & Practice	12	4
ACB321	Managerial Accounting	12	4
ACB331	Financial Management II	12	4
ACB311	Auditing	12	3

Year 3, Semester 2

ACB310	Accounting Theory & Practice	12	4
	Elective for major	12	3-4
	Elective for major	12	3-4
	General Elective	12	3-4

Part-Time Course Structure

**Credit
Points**

**Contact
Hrs/Wk**

Year 1, Semester 1

ACB110	Accounting I	12	4
MNB151	Microeconomic Analysis	12	3

Year 1, Semester 2

ACB115	Accounting II	12	4
MNB251	Macroeconomic Analysis	12	3

Year 2, Semester 1

ISB392	Business Computing	12	4
MAB173	Quantitative Methods	12	3

Year 2, Semester 2

ACB140	Business Law	12	4
MNB252	Business Statistics	12	3

Year 3, Semester 1

CMB105	Business Communication	12	3
ISB492	Computerised Accounting Systems	12	4

Year 3, Semester 2

MNB412	Management & Organisations	12	3
ACB230	Financial Management I	12	4

Year 4, Semester 1

ACB240	Law of Business Associations	12	4
ACB212	Company Accounting	12	4

Year 4, Semester 2

ACB220	Elective for major	12	3-4
	Cost Accounting	12	4

Year 5, Semester 1

ACB311	Auditing	12	3
ACB340	Taxation Law & Practice	12	4

Year 5, Semester 2

ACB310	Accounting Theory & Practice	12	4
	Elective for major	12	3-4

Year 6, Semester 1

ACB321	Managerial Accounting	12	4
ACB331	Financial Management II	12	4

Year 6, Semester 2

	Elective for major	12	3-4
	General Elective	12	3-4

BUSINESS COMPUTING MAJOR**Full-Time Course Structure**

Credit Points	Contact Hrs/Wk
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Year 1, Semester 1

ACB110	Accounting I	12	4
MNB151	Microeconomic Analysis	12	3
MAB173	Quantitative Methods	12	3
CSB181	Introduction to Computer Science	12	3

Year 1, Semester 2

ACB115	Accounting II	12	4
MNB251	Macroeconomic Analysis	12	3
ISB392	Business Computing	12	4
MNB252	Business Statistics	12	3

Year 2, Semester 1

ISB492	Computerised Accounting Systems	12	4
ACB140	Business Law	12	4
ISB283	Database & Procedural Languages	12	3
CMB105	Business Communication	12	3

Year 2, Semester 2

ISB290	Information Systems Analysis & Design II	12	3
INB285	Data Communications	12	4
ACB220	Cost Accounting	12	4
MNB412	Management & Organisations	12	3

Year 3, Semester 1

ISP381	Advanced Information Systems OR	12	3
ISP383	Office Information Systems	12	3
ACB311	Auditing	12	3

ACB212	Company Accounting	12	4
ACB240	Law of Business Associations	12	4
Year 3, Semester 2			
ACB360	Computer Security & Audit	12	3
ACB310	Accounting Theory & Practice	12	4
ACB230	Financial Management I	12	4
ACB321	Managerial Accounting	12	4
Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ACB110	Accounting I	12	4
MNB151	Microeconomic Analysis	12	3
Year 1, Semester 2			
ACB115	Accounting II	12	4
MNB251	Macroeconomic Analysis	12	3
Year 2, Semester 1			
MAB173	Quantitative Methods	12	3
CSB181	Introduction to Computer Science	12	3
Year 2, Semester 2			
ISB392	Business Computing	12	4
MNB252	Business Statistics	12	3
Year 3, Semester 1			
CMB105	Business Communication	12	3
ISB492	Computerised Accounting Systems	12	4
Year 3, Semester 2			
MNB412	Management & Organisations	12	3
ISB290	Information Systems Analysis & Design II	12	3
Year 4, Semester 1			
ACB140	Business Law	12	4
ISB283	Database & Procedural Languages	12	3
Year 4, Semester 2			
INB285	Data Communications	12	4
ACB220	Cost Accounting	12	4
Year 5, Semester 1			
ISP381	Advanced Information Systems OR		
ISP383	Office Information Systems	12	3
ACB212	Company Accounting	12	4
Year 5, Semester 2			
ACB310	Accounting Theory & Practice	12	4
ACB360	Computer Security & Audit	12	3
Year 6, Semester 1			
ACB240	Law of Business Associations	12	4
ACB311	Auditing	12	3
Year 6, Semester 2			
ACB230	Financial Management I	12	4
ACB321	Managerial Accounting	12	4

BANKING AND FINANCE MAJOR
Full-Time Course Structure
Credit
Points
Contact
Hrs/Wk
Year 1, Semester 1

ACB110	Accounting I	12	4
ISB392	Business Computing	12	4
MNB151	Microeconomic Analysis	12	3
MAB173	Quantitative Methods	12	3

Year 1, Semester 2

ACB115	Accounting II	12	4
MNB251	Macroeconomic Analysis	12	3
ACB140	Business Law	12	4
MNB252	Business Statistics	12	3

Year 2, Semester 1

ISB492	Computerised Accounting Systems	12	4
ACB240	Law of Business Associations	12	4
ACB212	Company Accounting	12	4
CMB105	Business Communication	12	3

Year 2, Semester 2

MNB412	Management & Organisations	12	3
ACB230	Financial Management I	12	4
ACB220	Cost Accounting	12	4
ACB231	Australian Capital Markets	12	3

Year 3, Semester 1

ACB351	Financial Institutions - Management	12	4
ACB350	Financial Institutions - Lending	12	3
ACB340	Taxation Law & Practice	12	4
ACB331	Financial Management II	12	4

Year 3, Semester 2

ACB310	Accounting Theory & Practice	12	4
ACB336	International Finance	12	3
	Elective for major	12	3-4
	Elective for major	12	3-4

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

ACB110	Accounting I	12	4
MNB151	Microeconomic Analysis	12	3

Year 1, Semester 2

ACB115	Accounting II	12	4
MNB251	Macroeconomic Analysis	12	3

Year 2, Semester 1

ACB140	Business Law	12	4
MAB173	Quantitative Methods	12	3

Year 2, Semester 2

CMB105	Business Communication	12	3
MNB252	Business Statistics	12	3

Year 3, Semester 1

ISB392	Business Computing	12	4
ACB240	Law of Business Associations	12	4

Year 3, Semester 2

MNB412	Management & Organisations	12	3
ACB220	Cost Accounting	12	4

Year 4, Semester 1

ISB492	Computerised Accounting Systems	12	4
ACB212	Company Accounting	12	4

Year 4, Semester 2

ACB230	Financial Management I	12	4
ACB231	Australian Capital Markets	12	3

Year 5, Semester 1

ACB351	Financial Institutions - Management	12	4
ACB331	Financial Management II	12	4

Year 5, Semester 2

ACB310	Accounting Theory & Practice	12	4
ACB336	International Finance	12	3

Year 6, Semester 1

ACB350	Financial Institutions - Lending	12	3
ACB340	Taxation Law & Practice	12	4

Year 6, Semester 2

	Elective for major	12	3-4
	Electivefor major	12	3-4

Electives		Semester Offered	Credit Points	Contact Hrs/Wk
ACB312	Auditing & Professional Practice	1,2	12	4
ACB320	Government Accounting	2	12	4
ACB332	Portfolio & Security Analysis	2	12	3-4
ACB335	Insurance Risk Management	2	12	4
ACB341	Commercial & Securities Law	1,2	12	3
ACB342	Company Law & Practice	1,2	12	4
ACB343	Taxation of Business Entities	1,2	12	4
ACB344	Taxation & Professional Practice	2	12	3
ACB345	Financial Institutions - Law	2	12	3-4
ACB352	Comparative Financial Systems	2	12	4
ACB322	Financial Modelling	2	12	4
ACB999	Special Topic Accountancy	1,2	12	3
ACB380	Law & Communication	1,2	12	3

■ Bachelor of Business – Communication* (CMJ153)**Location:** Gardens Point campus**Course Duration:** 3 years full-time, 6 years part-time**Total Credit Points:** 288**Standard Credit Points/Full-Time Semester:** 48

* See Note, page 289.

Coordinator for Advertising Major: Mr Vince Henderson

Coordinator for Film and Television Major: Mr Ridley Williams

Coordinator for Journalism Major: Dr Len Granato

Coordinator for Public Relations Major: Mr Bernie Murchison

Special Course Requirement

All students are expected to type efficiently and Journalism Majors to learn Teeline shorthand.

ADVERTISING MAJOR

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CMB014	Writing & Communication Theory	12	4
CMB012	Speech Communication	12	3
CMB111	Sociology	12	3
CMB359	Newsriting	12	3

Year 1, Semester 2

CMB211	Communication Research	12	3
CMB163	Introduction to Audio-visual Communication	12	3
MNB253	Introductory Marketing	12	3
CMB241	Introduction to Advertising	12	3

Year 2, Semester 1

CMB423	Australian Media Institutions	12	3
CMB363	Advertising Copywriting - Print	12	3
CMB541	Media Strategy	12	3
CMB442	Motivation & Ethics in Advertising	12	3

Year 2, Semester 2

CMB562	Media Text Analysis	12	3
	Core Option 1*	12	3
	Elective 1	12	3
	Elective 2	12	3

Year 3, Semester 1

CMB542	Advertising Management	12	3
	Core Option 2*		
	Core Option 3*	12	3
	Elective 3	12	3

Year 3, Semester 2

CMB641	Advertising Campaigns	12	3
CMB544	Direct Response Advertising	12	3
	Core Option 4*	12	3
	Elective 4	12	3

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CMB014	Writing & Communication Theory	12	4
CMB111	Sociology	12	3

* Core Options for Advertising students should be chosen in consultation with Advertising Coordinator, Mr Vince Henderson.

Year 1, Semester 2

CMB012	Speech Communication	12	3
CMB359	Newswriting	12	3

Year 2, Semester 1

CMB211	Communication Research	12	3
MNB253	Introductory Marketing	12	3

Year 2, Semester 2

CMB423	Australian Media Institutions	12	3
CMB442	Motivation & Ethics in Advertising	12	3

Year 3, Semester 1

CMB163	Introduction to Audio-visual Communication	12	3
CMB241	Introduction to Advertising	12	3

Year 3, Semester 2

CMB363	Advertising Copywriting - Print	12	3
	Core Option 1*	12	3

Year 4, Semester 1

CMB562	Media Text Analysis	12	3
	Elective 1	12	3

Year 4, Semester 2

CMB541	Media Strategy	12	3
	Core Option 2*	12	3

Year 5, Semester 1

CMB544	Direct Response Advertising	12	3
	Elective 2	12	3

Year 5, Semester 2

CMB542	Advertising Management	12	3
	Elective 3	12	3

Year 6, Semester 1

CMB641	Advertising Campaigns	12	3
	Core Option 3*	12	3

Year 6, Semester 2

	Core Option 4*	12	3
	Elective 4	12	3

FILM AND TELEVISION MAJOR**Full-Time Course Structure**

Credit Points	Contact Hrs/Wk
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Year 1, Semester 1

CMB014	Writing & Communication Theory	12	4
CMB012	Speech Communication	12	3
CMB111	Sociology	12	3
CMB359	Newswriting	12	3

Year 1, Semester 2

CMB211	Communication Research	12	3
CMB163	Introduction to Audio-visual Communication	12	3

* Core Options for Advertising students should be chosen in consultation with Advertising Coordinator, Mr Vince Henderson.

CMB321	Communication in Small Groups	12	3
	Professional Subject 1*	12	3
Year 2, Semester 1			
CMB423	Australian Media Institutions	12	3
CMB161	Literature & Communication	12	3
CMB464	Video Production Techniques	12	3
CMB466	Narrative Concepts	12	3
Year 2, Semester 2			
CMB562	Media Text Analysis	12	3
CMB561	Film & Television Scriptwriting	12	3
CMB592	Video Documentary Production	12	3
	Elective 1	12	3
Year 3, Semester 1			
CMB662	Film Drama Production	12	3
CMB564	Television Studio/Post Production	12	3
	Elective 2	12	3
	Elective 3	12	3
Year 3, Semester 2			
CMB664	Film & Video Business	12	3
CMB212	Australian Studies	12	3
	Elective 4	12	3
	Professional Subject 2*	12	3
Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CMB014	Writing & Communication Theory	12	4
CMB111	Sociology	12	3
Year 1, Semester 2			
CMB012	Speech Communication	12	3
CMB359	Newsriting	12	3
Year 2, Semester 1			
CMB321	Communication in Small Groups	12	3
	Professional Subject 1*	12	3
Year 2, Semester 2			
CMB423	Australian Media Institutions	12	3
CMB161	Literature & Communication	12	3
Year 3, Semester 1			
CMB163	Introduction to Audio-visual Communication	12	3
CMB211	Communication Research	12	3
Year 3, Semester 2			
CMB464	Video Production Techniques	12	3
CMB466	Narrative Concepts	12	3
Year 4, Semester 1			
CMB561	Film & Television Scriptwriting	12	3
CMB592	Video Documentary Production	12	3
Year 4, Semester 2			
CMB662	Film Drama Production	12	3
	Elective 1	12	3

* Professional Subjects 1 and 2 are chosen in consultation with Course Coordinators.

Year 5, Semester 1

CMB562	Media Text Analysis	12	3
CMB212	Australian Studies	12	3

Year 5, Semester 2

CMB564	Television Studio/Post Production	12	3
	Elective 2	12	3

Year 6, Semester 1

CMB664	Film & Video Business	12	3
	Elective 3	12	3

Year 6, Semester 2

	Professional Subject 2*	12	3
	Elective 4	12	3

JOURNALISM MAJOR**Full-Time Course Structure**

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

Year 1, Semester 1

CMB014	Writing & Communication Theory	12	4
CMB012	Speech Communication	12	3
CMB111	Sociology	12	3
CMB359	Newsriting	12	3

Year 1, Semester 2

CMB211	Communication Research	12	3
CMB163	Introduction to Audio-visual Communication	12	3
CMB321	Communication in Small Groups	12	3
CMB360	Reporting Principles	12	3

Year 2, Semester 1

CMB423	Australian Media Institutions	12	3
CMB161	Literature & Communication	12	3
CMB464	Video Production Techniques	12	3
CMB462	Magazine & Feature Writing	12	3

Year 2, Semester 2

CMB562	Media Text Analysis	12	3
CMB212	Australian Studies	12	3
CMB571	Radio/Television Journalism I	12	3
CMB311	Contemporary Social Issues	12	3

Year 3, Semester 1

CMB371	Sub-editing & Layout	12	3
CMB672	Radio/Television Journalism II	12	3
	Elective 1	12	3
	Elective 2	12	3

Year 3, Semester 2

CMB671	Public Affairs Reporting	12	3
CMB673	Journalism Ethics & Issues	12	3
	Elective 3	12	3
	Elective 4	12	3

* Professional Subjects 1 and 2 are chosen in consultation with Course Coordinators.

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

CMB014	Writing & Communication Theory	12	4
CMB111	Sociology	12	3

Year 1, Semester 2

CMB012	Speech Communication	12	3
CMB359	Newsriting	12	3

Year 2, Semester 1

CMB321	Communication in Small Groups	12	3
CMB360	Reporting Principles	12	3

Year 2, Semester 2

CMB423	Australian Media Institutions	12	3
CMB462	Magazine & Feature Writing	12	3

Year 3, Semester 1

CMB163	Introduction to Audio-visual Communication	12	3
CMB211	Communication Research	12	3

Year 3, Semester 2

CMB464	Video Production Techniques	12	3
CMB161	Literature & Communication	12	3

Year 4, Semester 1

CMB562	Media Text Analysis	12	3
CMB571	Radio/Television Journalism I	12	3

Year 4, Semester 2

CMB311	Contemporary Social Issues	12	3
	Elective 1	12	3

Year 5, Semester 1

CMB212	Australian Studies	12	3
	Elective 2	12	3

Year 5, Semester 2

CMB371	Sub-editing & Layout	12	3
CMB672	Radio/Television Journalism II	12	3

Year 6, Semester 1

CMB671	Public Affairs Reporting	12	3
CMB673	Journalism Ethics & Issues	12	3

Year 6, Semester 2

	Elective 3	12	3
	Elective 4	12	3

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

CMB014	Writing & Communication Theory	12	4
CMB012	Speech Communication	12	3
CMB111	Sociology	12	3
CMB359	Newsriting	12	3

Year 1, Semester 2

CMB211	Communication Research	12	3
CMB163	Introduction to Audio-visual Communication	12	3
CMB321	Communication in Small Groups	12	3
CMB452	Introduction to Public Relations	12	3

Year 2, Semester 1

CMB423	Australian Media Institutions	12	3
CMB161	Literature & Communication	12	3
CMB464	Video Production Techniques	12	3
CMB552	Publicity & Promotion - Print	12	3

Year 2, Semester 2

CMB451	Industrial Press	12	3
CMB212	Australian Studies	12	3
CMB562	Media Text Analysis	12	3
CMB553	Publicity & Promotion - Electronic	12	3

Year 3, Semester 1

CMB422	Professional Speechwriting	12	3
CMB666	PR Consulting & Management	12	3
	Elective 1	12	3
	Elective 2	12	3

Year 3, Semester 2

CMB351	Community Relations	12	3
CMB651	Advanced Public Relations	12	3
	Elective 3	12	3
	Elective 4	12	3

Part-Time Course Structure

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

Year 1, Semester 1

CMB014	Writing & Communication Theory	12	4
CMB111	Sociology	12	3

Year 1, Semester 2

CMB012	Speech Communication	12	3
CMB359	Newsriting	12	3

Year 2, Semester 1

CMB321	Communication in Small Groups	12	3
CMB452	Introduction to Public Relations	12	3

Year 2, Semester 2

CMB423	Australian Media Institutions	12	3
CMB161	Literature & Communication	12	3

Year 3, Semester 1

CMB163	Introduction to Audio-visual Communication	12	3
CMB211	Communication Research	12	3

Year 3, Semester 2

CMB464	Video Production Techniques	12	3
CMB552	Publicity & Promotion - Print	12	3

Year 4, Semester 1

CMB562	Media Text Analysis	12	3
CMB553	Publicity & Promotion - Electronic	12	3

Year 4, Semester 2

CMB422	Professional Speechwriting	12	3
	Elective 1	12	3

Year 5, Semester 1

CMB451	Industrial Press	12	3
CMB212	Australian Studies	12	3

Year 5, Semester 2

CMB666	PR Consulting & Management	12	3
	Elective 2	12	3

Year 6, Semester 1

CMB351	Community Relations	12	3
CMB651	Advanced Public Relations	12	3

Year 6, Semester 2

	Elective 3	12	3
	Elective 4	12	3

Electives

The choice of elective is subject to the approval of the Head of School or the student's Course Coordinator.

The following electives will run in 1991, subject to adequate enrolments. Subjects from this list which do not have sufficient enrolments to run will be listed on the School noticeboards to enable those students who have enrolled in them to change their programs.

CMB191	Fundamentals of Photography
CMB220	Speech & Drama
CMB291	Australian Literature & Film
CMB307	Advanced Professional Writing
CMB441	Retail Advertising
CMB461	Creative Writing
CMB463	Modern Literature & Film in Society
CMB466	Narrative Concepts
CMB543	Advanced Advertising
CMB561	Film & Television Scriptwriting
CMB592	Video Documentary Production
CMB622	Professional Communication Practice
CMB662	Film Drama Production
CMN814	Modern Communication Technologies
CMN821	Advanced Organisational Communication
CMP125	Organisational Communication

Electives may be used to undertake a minor in one of a number of subject areas. A minor is defined as a structured sequence of at least three subjects. Set out below are sixteen possible minor sequences.

ADVERTISING MINOR

CMB241	Introduction to Advertising
CMB363	Advertising Copywriting - Print

and one of the following two subjects:

CMB542	Advertising Management
CMB543	Advanced Advertising

ECONOMICS MINOR

MNB151	Microeconomic Analysis
MNB251	Macroeconomic Analysis

and one of the following two subjects:

- MNB371 Microeconomic Theory
- MNB372 Macroeconomic Theory

FILM AND TELEVISION PRODUCTION MINOR

- CMB466 Narrative Concepts
- CMB561 Film & Television Scriptwriting
- CMB592 Video Documentary Production

GENERAL BUSINESS MINOR

- MNB151 Microeconomic Analysis
OR
- MNB251 Macroeconomic Analysis
- MNB451 Government, Business & Law
OR
- MNB181 Australian National Government B
- MNB154 Psychology
OR
- MNB253 Introductory Marketing

GOVERNMENT AND POLITICS MINOR

- MNB181 Australian National Government B
- MNB282 State Government
- MNB251 Macroeconomic Analysis

HUMAN RESOURCE MANAGEMENT MINOR

- MNB154 Psychology
- MNB254 Personnel Management & Industrial Relations
- MNB361 Human Resources & the Organisation

JOURNALISM MINOR

- CMB360 Reporting Principles
- CMB462 Magazine & Feature Writing (40 wpm prereq)

One of the following two subjects:

- CMB571 Radio & Television Journalism (60 wpm prereq)
- CMB371 Sub-editing & Layout

WRITING AND PERFORMANCE MINOR

- CMB220 Speech & Drama
- CMB422 Professional Speechwriting
- CMB461 Creative Writing

MARKETING MINOR

Marketing (General)

- MNB391 Marketing Management
- MNB392 Consumer Behaviour

One of the following two subjects:

- MNB492 Services Marketing
- MNB491 Retail Management I

Marketing (Strategic)

- MNB391 Marketing Management
- MNB392 Consumer Behaviour
- MNB691 Strategic Marketing

Marketing (Retailing)

- MNB491 Retailing Management I
- MNB524 Retailing Management II

and one of the following two subjects:

- MNB392 Consumer Behaviour
- MNB492 Services Marketing

MEDIA STUDIES MINOR

CMB291	Australian Literature & Film
CMB463	Modern Literature & Film in Society
CMB561	Film & Television Scriptwriting

ORGANISATIONAL COMMUNICATION MINOR

CMP125	Organisational Communication
MNB153	Analysis & Methodology in Management
MNB351	Organisational Analysis & Management

PROFESSIONAL WRITING MINOR

CMB307	Advanced Professional Writing
CMB451	Industrial Press
CMB461	Creative Writing

PUBLIC RELATIONS PRINCIPLES MINOR

CMB452	Introduction to Public Relations
CMB552	Publicity & Promotion - Print
CMB666	Public Relations Consulting & Management

PUBLIC RELATIONS – PRINT SKILLS MINOR

CMB452	Introduction to Public Relations
CMB552	Publicity & Promotion - Print
CMB451	Industrial Press

■ Bachelor of Business – Management (MNJ152)*

Location: Gardens Point campus

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

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Professional Recognition

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 as well as other general information relating to the course can be found in a guide which is available from the School office.

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 guide containing rules relating to sub-major study and a list of possible sub-majors and electives is available from the School of Management.

* See Note, page 289.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MNB251	Macroeconomic Analysis	12	3
MAB174	Computer Data Analysis	12	3
MNB153	Analysis & Methodology in Management	12	3
MNB154	Psychology	12	3
Year 1, Semester 2			
MNB151	Microeconomic Analysis	12	3
MNB252	Business Statistics	12	3
MNB253	Introductory Marketing	12	3
MNB254	Personnel Management & Industrial Relations	12	3
Year 2, Semester 1			
	Major	12	3
	Major or elective*	12	3
ACB180	Accounting for Managers	12	3
MNB351	Organisational Analysis & Management	12	3
Year 2, Semester 2			
	Major	12	3
	Major or elective	12	3
ACB230	Financial Management I	12	4
MNB451	Government, Business & Law	12	4
Year 3, Semester 1			
MNB551	Operations Management	12	3
	Major	12	3
	Elective	12	3
	Elective	12	3
	OR		
MNB551	Operations Management	12	3
	Major	12	3
	Major	12	3
	Elective	12	3
Year 3, Semester 2			
MNB651	Managerial Strategy	12	3
	Major	12	3
	Elective	12	3
	Elective	12	3
	OR		
MNB651	Managerial Strategy	12	3
	Elective	12	3
	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 Organisation
MNB461	Foundation HR Competencies
MNB561	Independent Study HRM

plus three of the following+:

MNB322	Introductory Training
MNB362	Recruitment & Selection

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

+ Must meet all prerequisite requirements.

MNB363	Industrial Relations I
MNB364	Personnel Administrative Systems/Occupational Health & Safety
MNB661	Interviewing & Counselling
MNB462	Advanced Organisation Behaviour
MNB463	Organisation 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

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

MNB371	Microeconomic Theory
MNB372	Macroeconomic Theory
MNB471	Microeconomic Policy
MNB472	Macroeconomic Policy
MNB571	Advanced Economic Theory & Policy
MNB572	Applied Econometrics

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MNB153	Analysis & Methodology in Management	12	3
MNB154	Psychology	12	3
Year 1, Semester 2			
MNB254	Personnel Management & Industrial Relations	12	3
MNB151	Microeconomic Analysis	12	3
Year 2, Semester 1			
MAB174	Computer Data Analysis	12	3
MNB251	Macroeconomic Analysis	12	3
Year 2, Semester 2			
MNB253	Introductory Marketing	12	3
MNB252	Business Statistics	12	3
Year 3, Semester 1			
Two of the following:			
ACB180	Accounting for Managers	12	3
MNB351	Organisational Analysis & Management	12	3
	Major	12	3
	Major or Elective*	12	3
Year 3, Semester 2			
Two of the following:			
ACB230	Financial Management I	12	4
MNB451	Government, Business & Law	12	4
	Major	12	3
	Major or Elective	12	3

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

Year 4, Semester 1

Two of the following:

MNB351	Organisational Analysis & Management (if not completed in Year 3, Semester 1)	12	3
ACB180	Accounting for Managers (if not completed in Year 3, Semester 1)	12	3
	Major or Elective	12	3
	Major or Elective	12	3

Year 4, Semester 2

Two of the following:

MNB451	Government, Business & Law (if not completed in Year 3, Semester 2)	12	4
ACB230	Financial Management I (if not completed in Year 3, Semester 2)	12	4
	Major or Elective	12	3
	Major or Elective	12	3

Year 5, Semester 1

Two of the following:

MNB551	Operations Management	12	3
	Major	12	3
	Major or Elective	12	3

Year 5, Semester 2

Two of the following:

MNB651	Managerial Strategy	12	3
	Major	12	3
	Major or Elective	12	3

Year 6, Semester 1

Two of the following:

MNB551	Operations Management (if not completed in Year 5, Semester 1)	12	3
	Major	12	3
	Major or Elective	12	3

Year 6, Semester 2

Two of the following:

MNB651	Managerial Strategy (if not completed in Year 5, Semester 2)	12	3
	Major	12	3
	Major or Elective	12	3

■ Bachelor of Business – Public Administration (MNJ154)*

Location: Gardens Point campus

Course Duration: 3 years full-time, 6 years 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

* See Note, page 289.

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 Coordinator must be gained for each student's sub-major. Please note that a student guide containing general information about the School of Management, its courses and rules is available from the School office.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MNB183	Australian National Government A	12	4
MNB184	Introduction to Administrative & Political Analysis	12	3
MNB251	Macroeconomic Analysis	12	3
ACB383	Accountancy for Administrators*	12	3
	OR		
ACB110	Accounting I*	12	4
Year 1, Semester 2			
MNB385	Administrative Theory	12	4
MNB151	Microeconomic Analysis	12	3
MNB282	State Government	12	3
CMB119	Sociology for Professionals	12	3
Year 2, Semester 1			
MNB382	Administration Research I	12	3
MNB516	Organisational Sociology	12	3
MNB482	Local Government	12	4
	Elective	12	3
Year 2, Semester 2			
MNB484	Public Personnel Management	12	4
ISB156	Management Information Systems	12	3
MNB483	Administration Analysis	12	3
	Elective	12	3
Year 3, Semester 1			
MNB588	Public Policy Process I	12	4
ACB381	Public Administrative Law	12	3
	Elective	12	3
	Elective	12	3
Year 3, Semester 2			
MNB687	Public Policy Process II	12	4
MNB582	Financial Administration	12	3
	Elective	12	3
	Elective	12	3
Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MNB183	Australian National Government A	12	4
MNB184	Introduction to Administrative & Political Analysis	12	3
Year 1, Semester 2			
MNB282	State Government	12	3
MNB251	Macroeconomic Analysis	12	3

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

Year 2, Semester 1

MNB482	Local Government	12	4
MNB382	Administration Research I	12	3

Year 2, Semester 2

CMB119	Sociology for Professionals	12	3
MNB483	Administration Analysis	12	3

Year 3, Semester 1

MNB151	Microeconomic Analysis	12	3
ACB161	Accountancy for Administrators*	12	3
	OR		
ACB110	Accounting I*	12	4

Year 3, Semester 2

MNB385	Administrative Theory	12	4
ISB156	Management Information Systems	12	3

Year 4, Semester 1

MNB516	Organisational Sociology	12	3
	Elective	12	3

Year 4, Semester 2

MNB484	Public Personnel Management	12	4
	Elective	12	3

Year 5, Semester 1

MNB588	Public Policy Process I	12	4
	Elective	12	3

Year 5, Semester 2

MNB582	Financial Administration	12	3
	Elective	12	3

Year 6, Semester 1

ACB381	Public Administrative Law	12	3
	Elective	12	3

Year 6, Semester 2

MNB687	Public Policy Process II	12	4
	Elective	12	3

Sub-Majors

Examples of sub-majors are:

International Business	Personnel/Psychology	Personnel Management
Public Administration	Economics	Industrial Relations
Accountancy	Computing	Advertising
Journalism	Public Relations	Local Government Administration
Tourism Management		

Students wishing to meet the requirements for the Queensland Local Government Clerk's Certificate must take the six subjects specified as the Local Government Administration sub-major listed in the student guide.

Public Administration Electives

Electives include:

MNB504	International Politics & Business
MNB686	Government & Business
MNB485	Public Enterprise
MNB584	Local Government Administrative Practice I

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

MNB684	Local Government Administrative Practice II
MNB281	Political Behaviour
MNB998	Special Topic in Public Policy eg, Agriculture, Manufacturing, Social Welfare, Education, External Affairs
MNB586	Comparative Politics
MNB683	Comparative Administration
MNB613	Government Policy & the Tourism Industry

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
CMB132	Business & Professional Writing
CMB105	Business Communication
CMB211	Introduction to Social Enquiry

Kedron Park campus

Course Structures

■ Master of Business – Industrial Relations or Marketing Science (MBUS)

Location: Kedron Park campus

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Entry Requirements

To be eligible for admission, an applicant must:

- (i) hold an approved degree complete with a high level of achievement; and
- (ii) have had substantial work experience involving investigatory and research skills.

Marketing science: degree studies preferably in the statistics and economics disciplines.

Special Course Requirements

The course requires completion of 192 credit points comprising coursework (24-72 credit points) and thesis (120-168 credit points).

Subject to the approval of the Course Coordinator and the other institution concerned, students may be permitted to take some subjects chosen from that institution's master-level programs.

Master of Business – Industrial Relations

Coordinator: Dr Don Lambert

Course Structure		Credit Points	Contact Hrs/Wk
Coursework subjects (24-72 credit points required)			
IR5004	Industrial Relations Methodology	12	4
IR5005	Advanced Theory & Comparativism	12	4
IR5006	Industrial Relations Planning	10	4
IR5007	Advanced Industrial Law	10	4
Thesis (120-168 credit points required)			
IR5011	Thesis		

Master of Business – Marketing Science

Coordinator: Dr Michael Quayle

Professional Recognition

Membership of the Australian Marketing Institute and Economic Society of Australia.

Course Structure		Credit Points	Contact Hrs/Wk
Coursework subjects (24-72 credit points required)			
MK5004	Advanced Quantitative Research Methods	12	4
MK5005	Business Forecasting Techniques	12	4
MK5006	Business Logistics	12	4
MK5007	Advanced Marketing Simulation	12	4
Thesis (120-168 credit points required)			
MK5011	Thesis		

■ Graduate Diploma of Business – Administration (GDAD)

Location: Kedron Park campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Lyn Parsons

Entry Requirements

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

- (i) an approved degree or equivalent, or extensive experience at an appropriate level will be considered in exceptional circumstances.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
BUSINESS ADMINISTRATION 1 MAJOR			
<i>Focus: General Management</i>			
Semester 1			
AC4030	Administrative Accounting	12	4
AD4010	Business Communication	12	4
AD4013	Strategic Management Thought & Practice 1	12	4
SK4015	Skills for Office Automation	12	4
	OR		
Elective	Select from List 285	12	
Elective	Select from List 285	12	
Semester 2			
AD4014	Strategic Management Thought & Practice 2	12	4
CO4055	Microcomputer Applications	12	4
MK4006	Entrepreneurship	12	4
Elective	Select from List 285	12	
BUSINESS ADMINISTRATION 2 MAJOR			
<i>Focus: People Management</i>			
Semester 1			
AG4030	Administrative Accounting	12	4
	OR		
SK4015	Skills for Office Automation	12	4
	OR		
Elective	Select from List 285	12	
AD3050	Perspectives on Organisation & Management	12	4
AD4010	Business Communication	12	4
AD4013	Strategic Management Thought & Practice 1	12	4
Semester 2			
AD4014	Strategic Management Thought & Practice 2	12	4
CO4055	Microcomputer Applications	12	4
	OR		
Elective	Select from List 285	12	
Elective	Select from List 285	12	
Elective	Select from List 285	12	
ARTS ADMINISTRATION MAJOR			
<i>Focus: Arts Administration and Management</i>			
Semester 1			
AC4030	Administrative Accounting	12	4
AD4010	Business Communication	12	4
AD4011	Arts Administration & Society	12	4
AD4013	Strategic Management Thought & Practice 1	12	4
Semester 2			
AD4012	The Arts Industry	12	4
MK4006	Entrepreneurship	12	4
Elective	Select from List 285	12	
Elective	Select from List 285	12	
Elective List			
List 285			
LAW			
IR4011	Employment Law	12	4
IR4014	Industrial Law	12	4
LW3012	Legal Studies 1	12	4
LW3013	Legal Studies 2	12	4

MANAGEMENT

AD3045	Media Management	12	4
AD3046	Training & Development	12	4
AD3051	Management Policy & Strategy	12	4
AD3052	Strategic Human Resource Management	12	4
AD4006	Strategic Management Thought & Practice 2	12	4
MK4006	Entrepreneurship	10	4

OFFICE ADMINISTRATION AND TECHNOLOGY

AD4015	Issues in Office Administration	12	4
CO3055	Microcomputer Applications	12	4
SK4015	Skills for Office Automation	12	4
SK4016	Office Automation & Administration	12	4
SK4017	Office Administration Assignments	12	6

OTHER BUSINESS SUBJECTS

AC4030	Administrative Accounting	12	4
EC3028	Economics 1	12	4
EC3029	Economics 2	12	4
MK4005	Quantitative Methods for Business	12	4
MK4007	Marketing for Managers	12	4

Part-Time Course Structure

For details of part-time course structure, consult the Course Coordinator.

Notes:

- (1) Students are required to take at least 50 per cent of subjects at graduate diploma level ('4' - level subjects as in IR4011).
- (2) Students are required to substitute for equivalent studies undertaken in another award.
- (3) Elective choice should be made in consultation with Course Coordinator.
- (4) Entry to Arts Administration major requires a selection interview.
- (5) The offering of any major or subject within the course is subject to minimum enrolments being met in that major or subject.

■ Graduate Diploma of Business – Industrial Relations (GDIR)

Location: Kedron Park campus

Course duration: 1 year full-time, or 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Richard Sappey

Entry Requirements

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

- (i) an approved degree or equivalent or extensive industrial relations experience.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
IR4017	Industrial Relations Theory	12	4
IR4018	Comparative Industrial Relations	12	4
IR4019	Employment Law	12	4
IR4020	Industrial Relations Practices	12	4
Semester 2			
IR4021	Industrial Relations Structures	12	4
IR4022	Industrial Law	12	4
IR4023	Industrial Relations Policies	12	4
IR4024	Industrial Relations Processes	12	4
Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
IR4017	Industrial Relations Theory	12	4
IR4019	Employment Law	12	4
Year 1, Semester 2			
IR4021	Industrial Relations Structures	12	4
IR4022	Industrial Law	12	4
Year 2, Semester 1			
IR4018	Comparative Industrial Relations	12	4
IR4020	Industrial Relations Practices	12	4
Year 2, Semester 2			
IR4023	Industrial Relations Policies	12	4
IR4024	Industrial Relations Processes	12	4

■ Graduate Diploma of Business – Professional Accounting (GDPA)

Location: Kedron Park campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Joy Campbell

Entry Requirements

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

- (i) an approved Bachelor of Business or Bachelor of Commerce or equivalent with major studies in accounting.

Professional Recognition

This course is recognised for membership purposes by the Institute of Chartered Accountants in Australia (ICA) and the Institute of Corporate Managers, Secretaries and Administrators.

Course Structure

Normally, students will be expected to take 60 credit points at postgraduate level. Students may choose subjects from the following lists. At least four subjects from the following list of postgraduate subjects:

		Credit Points	Contact Hrs/Wk
AC4020	Professional Year - Accounts	24	6
AC4021	Professional Year - Audit and E.D.P.	12	4
AC4022	Professional Year - Taxation	24	6
AC4023	Computers in Taxation	12	4
AC4024	Taxation Planning	12	4
AC4025	Computer Applications in Accounting	12	4
AC4026	Accounting Practice	12	4
AC4027	Advanced Financial Management	12	4

A maximum of four subjects from the following (but not including any subject or its equivalent for which credit has been obtained towards another award, unless the candidate did not need to claim credit for it in order to qualify for the other award). Other subjects may be taken with the approval of the Course Coordinator.

		Credit Points	Contact Hrs/Wk
AC3019	Business Finance 2	12	4
AC3023	Financial Accounting 3	12	4
AC3024	Business Finance 3	12	4
AC3025	Managerial Accounting 2	12	4
AC3027	Computer Applications in Public Practice 1	12	4
AC3028	Computer Applications in Public Practice 2	12	4
AC3032	Accounting Information Systems 1	12	4
AC3033	Accounting Information Systems 2	12	4
LW3015	Taxation Practice	12	4
LW3017	Corporate Law	12	4
LW3018	Business Law	12	4

For advice on appropriate course progression, students and intending students should consult with the Course Coordinator.

■ Bachelor of Business – Accounting, Administration and Management, Asian Studies, or Marketing (BBUS)

Location: Kedron Park campus (Bachelor of Business – Accounting is offered at the University's Sunshine Coast centre)

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

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Lynn Gallagher

Professional Recognition

BACHELOR OF BUSINESS – ACCOUNTANCY

The degree is recognised for membership purposes by the following associations and boards: Australian Society of CPAs; Institute of Chartered Accountants in Australia

(ICA); Tax Agents Registration Board (TARB); Institute of Corporate Managers, Secretaries and Administrators, Australian Institute of Bankers (AIB).

BACHELOR OF BUSINESS – ADMINISTRATION AND MANAGEMENT

The degree is recognised for affiliate membership with the Australian Institute of Management. Graduates may apply for full membership after a reduced period of work experience *vis-a-vis* non-graduates. Graduates are eligible for Associate membership of the Institute of Personnel Management of Australia and may become full members of the Australian Institute of Training and Development and the Royal Australian Institute of Public Administration.

BACHELOR OF BUSINESS – MARKETING

The degree is recognised for membership of the Australian Marketing Institute and the Economic Society of Australia.

Special Course Requirements

Students enrolled in the Bachelor of Business are required to choose a major. Majors may be changed after one or two semesters of study without any loss of credit for the subjects passed.

Electives may be chosen from any subjects in the Bachelor of Business program. Students may wish to choose electives from groups of related subjects to make up a minor specialisation. If they do not wish to pick up a minor specialisation they may select electives from across a wide range of subjects. In all cases prerequisites have to be met. The prerequisite standard is to be understood as a grade of four or better.

Not all majors and minors may be offered every year. The University endeavours to ensure that when substantial changes to a course occur students already enrolled are not disadvantaged with respect to completion of the course. Subjects will generally be offered in the day and evening modes. However, when the subject enrolment is low, in most cases, only the evening offering will be provided.

Bachelor of Business – Accounting

Coordinator: Mr Mark Christensen

Full-Time Course Structure

**Credit
Points**

**Contact
Hrs/Wk**

Note: Subjects are only offered in the semester in which they are listed.

Year 1, Semester 1

AC3013	Accounting	12	4
EC3028	Economics 1	12	4
LW3012	Legal Studies 1	12	4
MK3022	Business Quantitative Methods 1	12	4

Year 1, Semester 2

AC3017	Managerial Accounting 1	12	4
AC3032	Accounting Information Systems 1	12	4
LW3013	Legal Studies 2	12	4
MK3023	Business Quantitative Methods 2	12	4

Year 2, Semester 1

AC3014	Financial Accounting 1	12	4
AC3033	Accounting Information Systems 2	12	4
AD3048	Management & Industrial Relations	12	4

AD3040	OR		
	Organisational Communication 1	12	4
EC3029	Economics 2	12	4

Year 2, Semester 2

AC3015	Business Finance 1	12	4
AC3016	Financial Accounting 2	12	4
AD3040	Organisational Communication 1	12	4
	OR		
AD3048	Management & Industrial Relations	12	4
LW3014	Company Law	12	4

Year 3, Semester 1

AC3019	Business Finance 2	12	4
AC3025	Managerial Accounting 2	12	4
LW3015	Taxation Practice	12	4
	Elective	12	

Year 3, Semester 2

AC3018	Auditing	12	4
AC3023	Financial Accounting 3	12	4
AC3024	Business Finance 3	12	4
	Elective	12	

Part-Time Course Structure

**Credit
Points**

**Contact
Hrs/Wk**

Year 1, Semester 1

AC3013	Accounting	12	4
LW3012	Legal Studies 1	12	4

Year 1, Semester 2

AC3017	Managerial Accounting 1	12	4
LW3013	Legal Studies 2	12	4

Year 2, Semester 1

EC3028	Economics 1	12	4
MK3022	Business Quantitative Methods 1	12	4

Year 2, Semester 2

AC3032	Accounting Information Systems 1	12	4
MK3023	Business Quantitative Methods 2	12	4

Year 3, Semester 1

AC3014	Financial Accounting 1	12	4
EC3029	Economics 2	12	4

Year 3, Semester 2

AC3016	Financial Accounting 2	12	4
LW3014	Company Law	12	4

Year 4, Semester 1

AC3033	Accounting Information Systems 2	12	4
AD3048	Management & Industrial Relations	12	4
	OR		
AD3040	Organisational Communication 1	12	4

Year 4, Semester 2

AC3015	Business Finance 1	12	4
AD3040	Organisational Communication 1	12	4
	OR		
AD3048	Management & Industrial Relations	12	4

Year 5, Semester 1

AC3019	Business Finance 2	12	4
AC3025	Managerial Accounting 2	12	4

Year 5, Semester 2

AC3023	Financial Accounting 3	12	4
AC3024	Business Finance 3	12	4

Year 6, Semester 1

LW3015	Taxation Practice	12	4
	Elective	12	

Year 6, Semester 2

AC3018	Auditing	12	4
	Elective	12	

Bachelor of Business – Administration and Management

Coordinator: Ms Sandra Harding

Full-Time Course Structure	Credit Points	Contact Hrs/Wk
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Note: Subjects are only offered in the semester in which they are listed.

Year 1, Semester 1

AD3048	Management & Industrial Relations OR	12	4
AD3040	Organisational Communication 1	12	4
AD3049	Australian Government	12	4
CO3104	Introduction to Information Systems	12	4
LW3012	Legal Studies 1	12	4

Year 1, Semester 2

AD3040	Organisational Communication 1 OR	12	4
AD3048	Management & Industrial Relations	12	4
AD3042	Spoken Communication	12	4
AD3047	Management Processes	10	4
EC3028	Economics 1	12	4

Year 2, Semester 1

AC3013	Accounting	12	4
AD3043	Group Communication	12	4
AD3044	Written Communication	12	4
MK3022	Business Quantitative Methods 1	12	4

Year 2, Semester 2

AD3045	Media Management	12	4
AD3052	Strategic Human Resource Management	12	4
LW3019	Local Government	12	4
MK3022	Business Quantitative Methods 2	12	4

Year 3, Semester 1

AD3050	Perspectives on Organisation & Management	12	4
LW3016	Administrative Law Elective(s)	12 24	4

Year 3, Semester 2

AD3041	Organisational Communication 2	12	4
AD3046	Training & Development	12	4

AD3051	Management Policy & Strategy Elective	12 12	4
Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
AD3048	Management & Industrial Relations OR	12	4
AD3040	Organisational Communication 1	12	4
CO3104	Introduction to Computing Systems	12	4
Year 1, Semester 2			
AD3040	Organisational Communication 1 OR	12	4
AD3048	Management & Industrial Relations	12	4
AD3042	Spoken Communication	12	4
Year 2, Semester 1			
AD3044	Written Communication	12	4
LW3012	Legal Studies 1	12	4
Year 2, Semester 2			
AD3047	Management Processes	12	4
EC3028	Economics 1	12	4
Year 3, Semester 1			
AD3043	Group Communication	12	4
MK3022	Business Quantitative Methods 1	12	4
Year 3, Semester 2			
AD3052	Strategic Human Resource Management	12	4
MK3023	Business Quantitative Methods 2	12	4
Year 4, Semester 1			
AC3013	Accounting	12	4
AD3049	Australian Government	12	4
Year 4, Semester 2			
AD3045	Media Management Elective	12 12	4
Year 5, Semester 1			
LW3016	Administrative Law Elective	12 12	4
Year 5, Semester 2			
AD3046	Training & Development	12	4
LW3019	Local Government	12	4
Year 6, Semester 1			
AD3050	Perspectives on Organisation & Management Elective	12 12	4
Year 6, Semester 2			
AD3041	Organisational Communication 2	12	4
AD3051	Management Policy & Strategy	12	4

Bachelor of Business – Asian Studies

Coordinator: Ms Chris Ryan

Full-Time Course Structure

**Credit
Points**

**Contact
Hrs/Wk**

Note: Subjects are only offered in the semester in which they are listed.

Year 1, Semester 1

AC3013	Accounting	12	4
CO3104	Introduction to Information Systems	12	4
LW3012	Legal Studies 1	12	4
MK3022	Business Quantitative Methods 1	12	4

Year 1, Semester 2

AD3040	Organisational Communication 1 OR	12	4
AD3048	Management & Industrial Relations	12	4
EC3028	Economics 1	12	4
MK3019	Introductory Marketing	12	4
MK3023	Business Quantitative Methods 2	12	4

Year 2, Semester 1

AD3048	Management & Industrial Relations OR	12	4
AD3040	Organisational Communication 1	12	4
AS3005	Asian Political Economy	12	4
EC3029	Economics 2	12	4
LA3001	Japanese Language 1 OR	12	4
LA3005	Mandarin Language 1	12	4

Year 2, Semester 2

AC3015	Business Finance 1	12	4
AS3004	Asian Culture Studies	12	4
LA3002	Japanese Language 2 OR	12	4
LA3006	Mandarin Language 2	12	4
MK3021	International Marketing	12	4

Year 3, Semester 1

AC3029	International Finance	12	4
LA3003	Japanese Language 3 OR	12	4
LA3007	Mandarin Language 3 Elective(s)	12 24	4

Year 3, Semester 2

AS3006	International Business Strategies	12	4
LA3004	Japanese Language 4 OR	12	4
LA3008	Mandarin Language 4	12	4
LW3029	International Business Law Elective	12 12	4

■ Bachelor of Business – Marketing

Coordinator: Mr Eugene McCann

Full-Time Course Structure	Credit Points	Contact Hrs/Wk
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Note: Subjects are only offered in the semester in which they are listed.

Year 1, Semester 1

AC3013	Accounting	12	4
CO3104	Introduction to Information Systems	12	4
LW3012	Legal Studies 1	12	4
MK3022	Business Quantitative Methods 1	12	4

Year 1, Semester 2

AD3040	Organisational Communication 1 OR	12	4
AD3048	Management & Industrial Relations	12	4
EC3028	Economics 1	12	4
MK3019	Introductory Marketing	12	4
MK3023	Business Quantitative Methods 2	12	4

Year 2, Semester 1

AD3048	Management & Industrial Relations OR	12	4
AD3040	Organisational Communication 1	12	4
EC3029	Economics 2	12	4
MK3013	Consumer Behaviour	12	4
MK3024	Introductory Econometrics	12	4

Year 2, Semester 2

MK3014	Business Forecasting	12	4
MK3020	Strategic Marketing	12	4
MK3028	Market Simulation	12	4
	Elective	12	

Year 3, Semester 1

MK3015	Market Research	12	4
MK3016	Logistics	12	4
MK3017	Computer Applications in Marketing	12	4
	Elective	12	

Year 3, Semester 2

MK3018	Applied Market Research	12	4
MK3021	International Marketing	12	4
	Elective(s)	24	

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

AC3013	Accounting	12	4
LW3012	Legal Studies 1	12	4

Year 1, Semester 2

EC3028	Economics 1	12	4
MK3019	Introductory Marketing	12	4

Year 2, Semester 1

EC3029	Economics 2	12	4
MK3022	Business Quantitative Methods 1	12	4

Year 2, Semester 2

AD3040	Organisational Communication 1	12	4
MK3023	Business Quantitative Methods 2	12	4

Year 3, Semester 1

CO3104	Introduction to Information Systems	12	4
MK3024	Introductory Econometrics	12	4

Year 3, Semester 2

MK3020	Strategic Marketing	12	4
MK3028	Market Simulation	12	4

Year 4, Semester 1

MK3013	Consumer Behaviour	12	4
MK3017	Computer Applications in Marketing	12	4

Year 4, Semester 2

MK3014	Business Forecasting	12	4
	Elective	12	

Year 5, Semester 1

MK3015	Market Research	12	4
MK3016	Logistics	12	4

Year 5, Semester 2

MK3021	International Marketing	12	4
	Elective	12	

Year 6, Semester 1

AD3048	Management & Industrial Relations	12	4
	Elective	12	

Year 6, Semester 2

MK3018	Applied Market Research	12	4
	Elective	12	

Minor Specialisations**ACCOUNTING MINOR**

AC3013	Accounting	12	4
AC3014	Financial Accounting 1	12	4
AC3016	Financial Accounting 2	12	4
AC3017	Managerial Accounting 1	12	4
AC3033	Accounting Information Systems 2	12	4
LW3014	Company Law	12	4

ADMINISTRATION AND MANAGEMENT MINOR

AD3040	Organisational Communication 1	12	4
AD3041	Organisational Communication 2	12	4
AD3047	Management Processes	12	4
AD3048	Management & Industrial Relations	12	4
AD3049	Australian Government	12	4
AD3052	Strategic Human Resource Management	12	4

COMPUTING MINOR

CO3085	Business Systems 1	12	4
CO3087	Programming Languages	12	4
CO3088	Computer Organisation	12	4
CO3089	Commercial Systems Development	12	4
CO3095	Commercial Applications Development	12	4
CO3101	Introduction to Programming	12	4
CO3104	Introduction to Information Systems	12	3
CO3108	Introduction to Computer Networks	12	3

COMPUTING APPLICATIONS MINOR

AC3032	Accounting Information Systems 1	12	4
AC3027	Computer Applications in Public Practice 1	12	4
AC3028	Computer Applications in Public Practice 2	12	4
	OR		
AC3034	Accounting & Control Systems	12	4
AC3033	Accounting Information Systems 2	12	4

INFORMATION SYSTEMS MINOR

CO3085	Business Systems 1	12	4
CO3086	Business Systems 2	12	4
CO3090	Database Systems 1	12	4
CO3093	Systems Planning	12	4
CO3095	Computer Systems Management	12	4
CO3097	Information Analysis	12	4
CO3098	Database Systems 2	12	4

LEGAL STUDIES MINOR

AD3052	Strategic Human Resource Management	12	4
LW3012	Legal Studies 1	12	4
LW3013	Legal Studies 2	12	4
LW3014	Company Law	12	4
LW3016	Administrative Law	12	4
LW3017	Corporate Law	12	4
LW3018	Business Law	12	4
LW3019	Local Government	12	4

MARKETING MINOR

EC3028	Economics 1	12	4
EC3029	Economics 2	12	4
MK3013	Consumer Behaviour	12	4
MK3014	Business Forecasting	12	4
MK3017	Computer Applications in Marketing	12	4
MK3019	Introductory Marketing	12	4
MK3020	Strategic Marketing	12	4

Electives**INTERNATIONAL STUDIES MINOR**

AD3054	International Operations	12	4
AD3055	International Human Resource Management	12	4
AS3007	International Environments of Business	12	4
EC3030	International Economics	12	4

Associate Diploma of Business – Industrial Relations (ADIR)

Location: Kedron Park campus

Course Duration: 4 years part-time internal and external

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Maryanne Winter

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

IR1024 Industrial Relations Skills 1

12

4

IR1025 Australian Development

12

4

Year 1, Semester 2

IR1018 Sociology of Work

12

4

LW1002 The Legal Process

12

4

Year 2, Semester 1

IR1017 Industrial Relations Institutions

12

4

IR1026 Australian Employment Law

12

4

Year 2, Semester 2

IR1020 Industrial Relations Skills 2

12

4

ST1012 Research Methods

12

4

Year 3, Semester 1

AD1004 Introduction to Management

12

4

EC1004 Elements of Labour Economics

12

4

Year 3, Semester 2

EC1003 Macroeconomic Analysis

12

4

IR1023 Industrial Relations & Management

12

4

Year 4, Semester 1

IR1019 Workplace Issues

12

4

IR1021 Industrial Relations Skills 3

12

4

Year 4, Semester 2

IR1022 Industrial Relations Skills 4

12

4

IR1027 Australian Industrial Law

12

4

FACULTY OF EDUCATION

FACULTY OF EDUCATION

Inter-campus courses

Course Structures

■ Master of Education – Leadership, Mathematics Education, or Research

Entry Requirements

A person may enrol as a candidate for the degree of Master of Education if that person:

- (a) holds an appropriate honours degree, master's qualifying program or appropriate postgraduate diploma; or
- (b) holds an appropriate bachelor degree at a standard acceptable to the Dean; or
- (c) holds other qualifications acceptable to the Dean which may include substantial work experience or involvement in relevant research activities; and/or
- (d) other requirements as specified in course entries.

Applicants may be required to provide satisfactory formal evidence of proficiency in the English language.

PROVISIONAL ENROLMENT

In special circumstances and with the specific approval of the Dean, a person may be admitted to the Master of Education award on a provisional basis. The conditions which must be satisfied to remove the provisional status must be detailed in writing by the Course Coordinator, endorsed by the Dean and placed on record by the Registrar.

- (a) A candidate so admitted shall be required to complete any designated qualifying subjects at credit level or better.
- (b) A candidate who completes course subjects at a satisfactory level during the period of provisional enrolment will be permitted to count these subjects towards the degree.
- (c) Unless the Dean accepts that exceptional circumstances justify extension of provisional status, it must be cleared within one calendar year from enrolment in the course. Such clearance will require approval by the Dean of a positive recommendation by the relevant Course Coordinator. The maximum period of extension of provisional candidature shall be one year.
- (d) A provisional candidate who fails to achieve a credit level in any qualifying subject(s) or a pass level in any coursework subjects or fails to make satisfactory progress in research studies shall have their candidature terminated or be required to show cause to the Dean through the Course Coordinator as to why their candidature should not be terminated.
- (e) A candidate whose provisional candidature is terminated may, after a lapse of two years, be permitted to apply for re-enrolment as a provisional candidate.

PROCEDURE FOR ENROLMENT

- (a) Before submitting an application for enrolment, a potential candidate shall consult the Coordinator of the relevant course of the Master of Education award concerning eligibility and special interests.

- (b) A person seeking admission to the Master of Education award shall apply on the appropriate forms through the Registrar. The completed application forms should be accompanied by any specified documentation. These will include a proposal for a course of study and research to be pursued for the purpose of obtaining the degree and other requirements as specified in particular strands. A person relying on qualifications from another institution of higher education shall furnish with the application evidence of such qualifications. After acknowledgement and recording of basic information by the Registrar, an application will be forwarded for consideration by the Course Coordinator who may require the applicant to attend an interview.
- (c) Course Coordinators will forward recommendations on application to the Registrar who will seek their formal approval by the Dean before forwarding official advice to all applicants on the outcome of their applications.

Course of Study

LENGTH

Candidates for the degree of Master of Education will normally be required to complete their course in two years of full-time study. If candidates have enrolled for the course by part-time study, then they will normally complete the course in a minimum of three years of study. Full-time students will be normally permitted to spend no more than three years to complete the course and part-time students will be allowed to spend a maximum of six years.

In exceptional cases, including those in which the candidate possesses substantial academic and/or special skills, the research strand of this course may be completed in less than two years but not less than one year of full-time study. All exceptional cases will be approved by the Dean upon the advice of the relevant Course Coordinator.

CREDIT POINTS

A candidate for a Master of Education will obtain a total of 160 credit points from studies in coursework subjects and/or from research studies. The course will consist of a series of autonomous strands, eg mathematics education, research and leadership. Each course will consist of studies totalling 160 credit points or their equivalent. Candidates will enrol to study in one of the designated courses. They will not normally be permitted to transfer from one course to another because of the special requirements listed in each course accreditation document.

Studies in the course of the award will consist of coursework subjects or detailed research investigations. Research studies will constitute between 25 per cent and 100 per cent of the work to be completed in each course of the award. Specific details of the work to be completed in each course is detailed in the accreditation document for each course.

TRANSFER OF CREDIT

- (a) On the recommendation of the Course Coordinator, the Dean may grant credit for studies passed at an approved institution of higher education, provided that:
 - (i) the studies are of equivalent standard and value to those offered at the University;
 - (ii) the studies are appropriate to the candidate's work at the University;
 - (iii) the studies have not counted towards a previous qualification;
 - (iv) the studies are not included in those that have been designated as qualifying studies for the course.
- (b) There shall be no maximum to credit granted for subjects previously completed at this institution prior to enrolment in the Master of Education award.

- (c) The maximum credit granted for studies passed elsewhere shall be the equivalent to one year of full-time study.
- (d) Credit may be granted for subjects passed elsewhere after enrolment in the Master of Education award provided that the candidate has previously obtained the permission of the Dean to enrol in these subjects.
- (e) Where credit is granted the Dean may reduce proportionately the candidate's period of enrolment.
- (f) A candidate who is re-enrolling following withdrawal or termination of candidature may be granted credit for previously successful studies by the Dean upon the recommendation of the Course Coordinator.

Supervision

Supervision in the Master of Education award consists of two components:

- (a) the supervision of individualised subjects of coursework study, and
- (b) the supervision of a thesis.

SUPERVISION OF INDIVIDUALISED SUBJECTS

Certain coursework subjects in particular strands will involve individual candidates working with supervising lecturers on a one-to-one basis. Here, candidates will have the opportunity to explore and negotiate with their lecturers to engage in integrated professional experiences that are closely linked to the candidates' current professional needs. This interaction will consist of a dialogue between candidate and lecturer to design an appropriate course of study for the particular subjects. Subsequently, they will submit this plan of study to the Course Coordinator for approval.

SUPERVISION OF A THESIS

Any course component representing 25 per cent or more of the course and involving substantial research/project work will be considered as a 'thesis'.

This work must be submitted to conform with format, style and other guidelines as set out in the publication *Guide to Thesis Presentation* which is available from the Registrar.

Thesis Project

- (i) The nature of the thesis research project must permit the candidate to demonstrate the acquisition of relevant research skills and their effective application in an investigation of genuine substance and significance.
- (ii) Early planning must allow for the submission of an approved initial subject enrolment form to the Registrar by the published due date.
- (iii) By no later than the end of the first semester a plan for the full program must be prepared and signed by the candidate and the Course Coordinator (who shall retain copies) and be lodged with the Registrar for endorsement by the Dean.
- (iv) The thesis must comprise a comprehensive, lucid and concise exposition on the context, objectives and conduct of the investigation and on its outcomes and their interpretation.

Supervision

- (i) For each candidate undertaking a thesis project a Thesis Supervisor must be appointed. An appropriate Supervisor or supervisory team should be identified early in the program when the thesis topic is chosen. An appointment will be made by the Dean on the advice of the relevant Course Coordinator.
- (ii) Candidates should meet regularly with their Supervisor to discuss progress, submit drafts or progress reports or present seminars where appropriate at least each semester and seek guidance as necessary.

- (iii) Supervisors should be readily available to candidates, should provide scholarly support and constructive criticism and should assist as appropriate with access to facilities, and any relevant external agencies.
- (iv) The Dean will not normally approve the appointment of any staff member as Thesis Supervisor to more than four candidates concurrently.
- (v) In special circumstances and with the specific approval of the Dean, an external Supervisor may be appointed.

Progression and Unsatisfactory Progress

PROGRESSION

In each year of the candidature the academic progress of each candidate shall be reviewed by the relevant Course Coordinator. Satisfactory progress for provisional candidates will consist of passing of qualifying requirements or course subjects at the appropriate levels. For candidates enrolled in coursework degrees, it will mean the successful completion of the relevant coursework subjects. For students enrolled in research studies, satisfactory progress will be judged by the submission of a report to the relevant Course Coordinator. Progress reports will be submitted at designated intervals, normally at least twice each year.

UNSATISFACTORY PROGRESS

- (a) With respect to coursework studies, candidates who have failed two or more subjects or who have otherwise progressed unsatisfactorily, may have their candidature terminated by the Dean.
- (b) With respect to the thesis project, progress which is considered clearly unsatisfactory by both the Supervisor and the Course Coordinator may lead to a recommendation by them to the Dean that the candidate be excluded from the course.
- (c) Before the Dean decides to terminate candidature, the candidate shall be given the opportunity to show cause why this action should not be taken.

Examination of the Thesis

SUBMISSION OF THESIS

- (a) A candidate should submit a minimum of three copies of a thesis to the relevant Course Coordinator for examination. These should be temporarily bound in order to facilitate the making of any revisions and editorial changes required by examiners (if the thesis is otherwise acceptable to them) before final printing and binding.
- (b) The thesis should be accompanied by a signed declaration that:
 - (i) the candidate has complied with the ethics of experimentation as set out in the publication *Guide to Thesis Presentation*;
 - (ii) the thesis is the candidate's own work and that all other sources are correctly acknowledged;
 - (iii) the thesis has not been submitted to another institution.

EXAMINATION OF THESIS

- (a) Each thesis will be examined by at least two examiners appointed by the Dean on the recommendation of the relevant Course Coordinator in consultation with the candidate. Such appointments should be finalised from two to four weeks prior to the anticipated submission date of the thesis. At least one of the examiners appointed will be external to the University.

- (b) An oral defence of a thesis may be made a component of the overall thesis examination procedure upon the recommendation of the Advisory Committee. Should this be the case, the relevant Course Coordinator will normally act as Chairperson of the group of examiners for the oral examination. At such an examination, the attendance of observers other than the Heads of the relevant Department or School (if they so wish) is subject to the express approval of the Dean.
- (c) Examiners must receive copies of the thesis in reasonable time to permit its thorough consideration and appraisal before the date by which assessments are required or before any oral examination. Whether or not there is an oral examination, each examiner is required to submit a written assessment of the thesis within eight weeks of its receipt.
- (d) These assessments will be presented on official forms available from the Registrar and will deal with the general standard and quality of the work and not with specific detail. They will be submitted to the relevant Course Coordinator by the specified date and, if there is to be an oral examination, before this examination. These assessments are individual and confidential and should not be made available to other examiners. Each should make one of the following recommendations:
 - (i) Pass – implying that the thesis will be fully satisfactory except possibly for minor editorial changes;
 - (ii) Resubmit – implying that the thesis will be fully acceptable when certain necessary corrections or modifications are made by the candidate and resubmitted to the examiners;
 - (iii) Fail – implying that the thesis is not of an acceptable standard.
- (e) In the case of (i) and (ii) above, an examiner should provide, along with the official assessment form, a separate document indicating where corrections or modifications are required and, as appropriate, providing any constructive criticism and comment helpful to the candidate. An examiner will refer to any notably original contributions which the candidate has made and may comment on the scope for further research or postgraduate study. Such additional documents should be retained temporarily by the relevant Course Coordinator.
- (f) The relevant Course Coordinator will forward the set of examiner's assessment forms (together with the additional signed judgements of each examiner respecting any oral examination held) to the Dean, attaching a formal recommendation based on these. The Dean will indicate acceptance or otherwise of the recommendation.
- (g) If a recommendation of type (i) is accepted, the Dean will ask the relevant Course Coordinator to make the examiners' requirements available to the candidate and will sign an official record indicating satisfaction of all thesis requirements when advised by the relevant Course Coordinator that all required changes have been completed satisfactorily.
- (h) If a recommendation of type (ii) is accepted, the Dean will ask the relevant Course Coordinator to ensure that the candidate is requested to resubmit the thesis with any necessary corrections or modifications and that the revised thesis is forwarded to the examiner for assessment.
- (i) If the Dean accepts a recommendation of type (iii) the normal implication is that the candidate will be excluded from the course. However, in exceptional circumstances the Dean may grant the candidate an opportunity to submit a substantially new thesis after a period of not less than six months.

- (j) Normally all examiners will be expected to rate the thesis satisfactory for a pass to be awarded. However, if there is substantial disagreement between examiners concerning the acceptability of a thesis, the Dean may confer and seek further advice from the Higher Degree Advisory Committee before making a ruling.

Admission to Degree

Prior to admission, a candidate must have two of the completed documents bound. Of these, one copy of the completed document must be submitted for inclusion in the University Library collection as follows:

- (i) thesis, where it is a Master of Education degree by thesis
- (ii) thesis or dissertation associated with a coursework strand where this constitutes at least 25 per cent of the credit point total for the course.

A candidate who fulfils the requirements of these rules and whose work is of a standard that satisfies the Dean after considering the results in all subjects and/or the reports of all examiners, and has otherwise complied with the provisions of all statutes and other applicable rules, may be admitted to the degree of Master of Education.

Master of Education – Leadership (MELE)

Location: Kelvin Grove and Carseldine campuses

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Rod Gerber

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ED5015	The Socio-cultural Context of Education	12	3
ED5016	Learning & Leadership	12	3
ED5017	Leaders in Changing Contexts	12	3
ED5018	Applied Research Methods in Education	12	3
Year 1, Semester 2			
ED5019	Reading Unit 1	24	6
ED5020	Reading Unit 2	24	6
Year 2, Semester 1			
ED5006	Study Design	12	3
ED5007	Study Methodology	12	3
ED5008	Preparation for Applied Study	12	3
ED5009	Applied Study	12	3
Year 2, Semester 2			
ED5010	Summary of Applied Study	48	12

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ED5015	The Socio-cultural Context of Education	12	3
ED5016	Learning & Leadership	12	3
Year 1, Semester 2			
ED5017	Leaders in Changing Contexts	12	3
ED5019	Reading Unit 1	24	6
Year 2, Semester 1			
ED5018	Applied Research Methods in Education	10	3
ED5020	Reading Unit 2	24	6
Year 2, Semester 2			
ED5006	Study Design	12	3
ED5007	Study Methodology	12	3
ED5008	Preparation for Applied Study	12	3
Year 3, Semester 1			
ED5009	Applied Study	12	3
ED5010	Summary of Applied Study (continues in Semester 2)		
Year 3, Semester 2			
ED5010	Summary of Applied Study (continued from Semester 1)	48	12

Master of Education – Mathematics Education (MEMA)

Location: Carseldine and Kelvin Grove campuses

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Tom Cooper

Course Structure		Credit Points	Contact Hrs/Wk
There are three options within this course:			
Option 1			
72 credit points selected from List 210		72	18
36 credit points selected from List 211		36	9
36 credit points selected from List 212		36	9
MA5060	Thesis in Mathematics Education 1	48	-
Option 2			
72 credit points selected from List 210		72	18
12 credit points selected from List 211		12	3
12 credit points selected from List 212		12	3
MA5061	Thesis in Mathematics Education 2	96	-
Option 3*			
48 credit points selected in consultation with the Course Coordinator		48	12
MA5062	Thesis in Mathematics Education 3	144	-

* Permission from the Course Coordinator must be sought to enter this option.

List 210: Core Subjects

MA5063	Perspectives in Mathematics Education	12	3
MA5064	Curriculum Studies in Mathematics	12	3
MA5065	Psychology of Mathematics Education	12	3
MA5066	Research & Evaluation Techniques	12	3
MA5067	Research & Evaluation Design	12	3
MA5068	Research in Mathematics Education	12	3

List 211: Mathematics Education Electives

MA5069	Curriculum Specialisation in Mathematics	12	3
MA5070	Diagnosis & Assessment in Mathematics	12	3
MA5071	Technology in Mathematics Education	12	3
MA5072	Social Contexts in Mathematics Education	12	3
MA5073	Leadership in Mathematics Education	12	3
MA5074	Independent Study	12	-
MA5075	Advanced Seminars	12	-

List 212: Mathematics Electives

MA5076	Number Theory	12	3
MA5077	Discrete Mathematics & Applications	12	3
MA5078	Computing & Statistical Methods	12	3
MA5079	History & Philosophy of Mathematics	12	3
MA5080	Fundamental Structures in Mathematics	12	3

Master of Education – Research (MERS)

Location: Carseldine and Kelvin Grove campuses

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Gillian Boulton-Lewis

Special Course Requirements

As a student proceeds through the four stages of the course she/he will be required to submit a progress report to the Coordinator at the conclusion of each semester.

There is provision in the course structure for students to present their proposal and their research in progress to a research seminar. Such seminars will be held at regular intervals with the frequency depending on the number of research students. It is envisaged that all students enrolled in this course would be expected to attend such seminars to present their own work and to discuss and evaluate the work of their peers. Academic staff, who are supervising research students, would also be expected to attend seminars on a regular basis.

Course Structure*		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ED5021	Stage 1: Preparation	48	-
Year 1, Semester 2			
ED5022	Stage 2: Proposal	48	-

* It is envisaged that each stage will occupy approximately one semester of full-time study; however, a high level of flexibility is maintained to allow students to progress at individual rates.

Year 2, Semester 1

ED5023	Stage 3: Implementation	48	-
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Year 2, Semester 2

ED5024	Stage 4: Submission	48	-
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■ Bachelor of Education – In-service (BEDU)

Locations: Carseldine and Kelvin Grove campuses

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

Total Credit Points: 96 (144 for the Extended Program)

Course Coordinator: Mr Peter Kendal

Special Course Requirements

Studies towards the in-service strand of the Bachelor of Education – In-service degree are available through three linking programs each pitched at a different level. These are:

- **Reorientation to Teaching Program:** a course designed to give specific categories of former teachers an opportunity to learn of recent developments in education;
- **Extended Bachelor of Education Program:** a course of subjects (normally a minimum of four) designed to replace the Diploma of Teaching (Upgrading); and
- **Bachelor of Education:** a course designed for three-year-trained (or equivalent) teachers wishing to pursue degree studies in education.

REORIENTATION TO TEACHING PROGRAM

Former teachers who have had fewer than three years' pre-service teacher education and less than three years' teaching experience in the last eight years, are required to complete a reorientation-to-teaching program.

This program is available from the University College of Southern Queensland, Post Office Darling Heights, Toowoomba, Q 4350.

On successful completion of the program, participants are eligible for entry into the 'Extended' Bachelor of Education course.

Extended Bachelor of Education – In-service Program

Course Structure

Students who have less than three years of training are required to undertake additional studies prior to the eight subjects required for the Bachelor of Education – In-service award. The additional studies are as follows:

For Primary and Early Childhood Teachers

Credit Points	Contact Hrs/Wk
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Part 1 – Compulsory Subjects

LA3032	Recent Developments in Language/Reading	12	3
MA3033	Modern Topics in Teaching Mathematics	12	3
PLUS			

Part 2 – Two of the following subjects determined by the Course Coordinator after reviewing the student's academic background

PI3305	Philosophy of Education	12	3
PY3305	Human Development & Learning	12	3
SY3305	Sociology of Education	12	3

For TAFE and Secondary Teachers

Part 1 – Compulsory Subjects

CU3042	Introduction to Curriculum Construction	12	3
ED3305	Secondary Education Today	12	3
	PLUS		

Part 2 – Two of the following subjects determined by the Course Coordinator after reviewing the student's academic background

PI3305	Philosophy of Education	12	3
PY3305	Human Development & Learning	12	3
SY3305	Sociology of Education	12	3

Any student who has completed four or more subjects of an Upgrading course will be eligible to transfer to the final eight subjects of the Bachelor of Education – In-service course irrespective of the nature of the subjects completed, ie, they need not be those specified in Part 1 and Part 2 above.

Bachelor of Education – In-service

Course Structure

Students are required to complete successfully 96 credit points as follows:

Strand

Studies in Education	ED3303 Contemporary Issues in Education plus 12 credit points from List B	12 12	
Curriculum Studies	CU3040 Teachers & the Curriculum plus 12 credit points from List A	12 12	
Studies in the Teaching/ Learning Process Specialist Studies Liberal Studies	24 credit points selected from no fewer than two of the strands (Lists C, D, E)	24	
	plus 24 credit points selected from any strand (Lists A, B, C, D, E)	24 ---	96

List A: Curriculum Studies Strand

		Credit Points	Contact Hrs/Wk
AR3033	Art Curriculum, Design & Development	12	3
CO3036	Computers in the School Curriculum	12	3
CS3031	Consumer Education	12	3
CU3041	Evaluation in Curriculum Development	12	3
DR3031	Drama Across the Curriculum	12	3
DY3031	Adult Development & Learning	12	3
EE3033	Early Education: Curriculum Development	12	3
EE3034	Early Education: Reading	12	3

EE3035	Mathematics: Early Childhood	12	3
EN3031	English Language Curriculum Issues	12	3
HE3031	Health Education Curriculum Planning	12	3
HS3042	Home Economics Applied Curriculum	12	3
MA3032	Curriculum Development in Mathematics	12	3
PE3032	Physical Education Curriculum: Secondary	12	3
PE3033	Physical Education Curriculum: Primary	12	3
SC3032	Primary Science Curriculum Development	12	3
SS3037	Social Education: Curriculum Development	12	3
SS3038	Social Education in the Curriculum	12	3

List B: Studies in Education Strand

ED3304	Students, Teachers & Knowledge	12	3
PI3303	Philosophical Perspectives on Education	12	3
PI3304	Philosophy in the Classroom	12	3
PY3304	Applied Strategies in Classroom Learning	12	3
PY3306	Interpersonal Psychology in Education	12	3
SY3303	Society, Social Policy & Education	12	3
SY3304	Sociology of the School	12	3

List C: Studies in the Teaching/Learning Process Strand

PY3603	Creativity in Problem Solving	12	3
PY3604	Innovative Teaching Methods	12	3
TS3604	Classroom Management: Models & Practice	12	3
TS3605	Perspectives on Educational Technology	12	3
TS3606	Teachers & Isolated Learners	12	3
TS3607	Teaching Strategies	12	3

List D: Specialist Studies Strand

ART			
AR3702	Advanced Three-Dimensional Studies	12	3
CE3701	Advanced Ceramics	12	3
DP3701	Advanced Painting Studies	12	3
TE3701	Woven Textiles	12	3
COMMERCIAL STUDIES			
AC3701	Company Accounting	12	3
SK3701	Advanced Secretarial Studies	12	3
COMPUTERS IN EDUCATION			
CO3712	Computers & Education	12	3
COUNSELLING AND PERSONAL DEVELOPMENT			
CL3702	Counselling: A Helping Relationship	12	3
CL3703	Counselling: Methods of Change	12	3
PY3703	Human Sexuality	12	3
SY3701	Studies in Alcohol & other Drugs	12	3
EARLY CHILDHOOD STUDIES			
EE3702	Working with Parents & Community	12	3
EE3703	Early Education Development & Learning	12	3
EDUCATIONAL MANAGEMENT AND ADMINISTRATION			
ED3705	School Organisation & Development	12	3
ED3706	The Community & School Administration	12	3
EDUCATIONAL RESEARCH			
ED3707	Educational Research & Practice	12	3
HOME ECONOMICS			
CT3701	Clothing Design	12	3
NU3701	Nutrition Appreciation	12	3
LANGUAGES AND LITERATURE			
EN3701	The Teacher & the Writing Process	12	3

LI3701	Children's Literature	12	3
LI3702	Tutoring Parents as Literacy Tutors	12	3
MATHEMATICS			
MA3704	Corrective Mathematics	12	3
MA3705	Teaching Problem Solving in Mathematics	12	3
PHYSICAL EDUCATION			
PE3704	Motor Development & Learning	12	3
READING			
RE3704	Trends in the Teaching of Reading	12	3
RE3705	Psychology of Reading Disability	12	3
RE3706	Learning to Learn Through Reading	12	3
SCIENCE			
BI3702	Australian Fauna	12	3
BI3703	Australian Flora	12	3
ER3701	Earth Science	12	3
SOCIAL AND CULTURAL STUDIES			
HI3702	The Study of History	12	3
HI3703	Asian Studies	12	3
SPECIAL EDUCATION			
SE3710	Non-traditional Classroom Management	12	3
SE3711	Psychosocial Foundations of Handicap	12	3
List E: Liberal Studies Strand			
ART			
AR3803	Visual Awareness & Communication	12	3
AR3804	History of Painting & Graphics	12	3
DP3801	Drawing	12	3
GR3801	Studies in Graphic Printmaking	12	3
TE3801	Textiles: Function & Design	12	3
COUNSELLING AND PERSONAL DEVELOPMENT			
SY3803	Career & Life Patterns of Women Teachers	12	3
DRAMA			
DR3802	Educational Drama	12	3
HISTORY AND COMPARATIVE EDUCATION			
ED3809	Comparative Education	12	3
ED3810	History of Australian Education	12	3
ED3811	International Education Field Study	12	3
LANGUAGES AND LITERATURE			
LI3806	The Appeal of Literature	12	3
MANUAL ARTS			
IA3801	Technology & Culture	12	3
MATHEMATICS			
MA3802	History of Mathematics	12	3
PHILOSOPHY OF HUMAN NATURE AND THE HUMAN CONDITION			
PI3802	Reform & Innovation in Education	12	3
PI3803	Contemporary Moral Problems	12	3
PHYSICAL EDUCATION			
PE3801	Sociology of Sport	12	3
SCIENCE AND AGRICULTURE			
BI3801	The Human Species	12	3
SOCIAL AND CULTURAL STUDIES			
ED3812	Education for a Multicultural Society	12	3
ED3813	Issues in Aboriginal Education	12	3
HI3803	Australian Studies	12	3

HI3804	Australia's Near Neighbour Indonesia	12	3
LW3801	Educators & the Law	12	3
SS3803	Patterns & Processes of Development	12	3
SS3804	Environmental Education	12	3
SY3804	Social Change & Women in Australia	12	3

ED3028, Independent Study (12 credit points). Students should note that approval to enrol in ED3028 has to be obtained. Application forms and information booklets which give full information on the Independent Study, are available from the Bachelor of Education Administrator, (07) 352 8503.

Kelvin Grove campus

Course Structures

■ Graduate Diploma of Education – Computer Education (GDCM)

Location: Kelvin Grove campus

Course Duration: 2 years part-time internal or external

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Paul Shield

Entry Requirements

To be eligible for admission, an applicant must:

- (i) hold an approved Diploma of Teaching or equivalent; and
- (ii) have had at least one year's teaching experience.

External students will need to have access to a computer system which supports the languages Pascal (preferably Turbo Pascal), Logo and PROLOG (preferably Turbo PROLOG), and which includes a disk drive and printer. Although some software resources are available for borrowing, external students will normally be expected to provide their own software.

It is highly desirable that external students have access to an IBM PC or compatible (eg, Sperry PC) with at least 640K of memory for at least some parts of the course.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CO4035	Computer Systems	12	3
CO4036	Computers in Education	12	3
Year 1, Semester 2			
CO4045	Information Systems & Education	12	3
Elective	Select from List 56	12	

Year 2, Semester 1

Elective	Select from List 57	12	
Elective	Select from List 57	12	

Year 2, Semester 2

CO4038	Computer Education Project	12	3
Elective	Select from List 56	12	

Elective Lists**List 56**

CO4037	Structured Programming	12	3
CO4041	Computers & School Administration	12	3
CO4042	Artificial Intelligence	12	3
CO4046	Computer Tools for Teaching	12	3

List 57

CO4039	Teaching Computer Studies: Secondary	12	3
CO4040	Computers in Primary Education	12	3
CO4043	Computer Graphics	12	3
CO4044	Modelling Information Systems	12	3

■ Graduate Diploma of Education – Early Childhood (GDEE)

Location: Kelvin Grove campus

Course Duration: 2 years external

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Barbara Piscitelli

Entry Requirements

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

- (i) an approved Diploma of Teaching or equivalent; and
- (ii) at least one year's teaching experience; and
- (iii) current teacher registration.

Special Course Requirements

Students should note that there is a compulsory period of two weeks' practice teaching (or more, according to Individual Teaching Experience Profiles) with children in the early childhood age range, to be undertaken at the completion of the first four subjects of the course. Students employed as teachers will need to complete these practice periods during school holidays in a specially organised setting. A further compulsory period of two weeks with children in the early childhood age range will be held toward the end of the course to provide opportunities for program design and evaluation. Some students may need to undertake this practicum during school holidays.

Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
EE4040	Development & Learning (3-8 years)	9	2.5
EE4042	Curriculum & Teaching Strategies 1	9	2.5

Year 1, Semester 2

EE4043	Curriculum & Teaching Strategies 2	9	2.5
EE4311	The Context of Early Childhood Education	9	2.5
EE4902	Practice Teaching 1	12	-

Year 2, Semester 1

EE4035	Program Planning	9	2.5
EE4041	Research in Development & Learning	9	2.5

Year 2, Semester 2

EE4044	Curriculum & Teaching Strategies 3	9	2.5
EE4312	Transactions in Early Childhood Education	9	2.5
EE4903	Practice Teaching 2	12	-

Graduate Diploma of Education – Early Childhood Teaching (GDTE)

Location: Kelvin Grove campus

Course Duration: 1 year full-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Donna Bethelsen

Entry Requirements

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

- (i) an approved degree or equivalent (no prerequisite studies required); and
- (ii) personal suitability.

Special Course Requirements

There is provision for 50 days of practice teaching within early childhood educational settings.

Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
EE4029	Social, Emotional & Physical Development (0-9)	8	3
EE4031	Creativity & Language 1	8	3
EE4033	Thinking & Problem Solving 1	8	3
EE4035	Program Planning Strategies & Micro-skills 1	8	3
EE4309	Socio-cultural Contexts of Education	8	3
PT4921	Practice Teaching 1	8	-
Semester 2			
EE4030	Cognition & Language (0-9)	8	3
EE4032	Creativity & Language 2	8	3
EE4034	Thinking & Problem Solving 2	8	3
EE4036	Program Planning Strategies & Micro-skills 2	8	3
EE4310	Teaching in Contemporary Society	8	3
PT4922	Practice Teaching 2	8	-

■ Graduate Diploma of Education – Human Relationships Education (GDHR)

Location: Kelvin Grove campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Mary Mannison

Entry Requirements

To be eligible for admission, an applicant must:

- (i) hold an approved Diploma of Teaching or equivalent; and
- (ii) have had at least one year's teaching experience.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
PY4046	Human Sexuality & Relationships	12	3
PY4048	Interpersonal & Small Group Teaching Strategies	12	3
Year 1, Semester 2			
PY4047	Interpersonal Relationships	12	3
PY4050	Human Relationship Throughout the Life Span	12	3
Year 2, Semester 1			
CU4015	Curriculum & Resource Development in HRE	12	3
PY4045	Socio-cultural Context of Human Relationships	12	3
Year 2, Semester 2			
CU4016	Applied Study in Human Relationships Education	12	3
PY4049	Ethics & Human Relationships Education	12	3

■ Graduate Diploma of Education – Resource Teaching* (GDRT)

Location: Kelvin Grove campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Barrie O'Connor

Note: Fieldwork Subjects for Part-time Students

Students studying on a part-time basis should replace the subject PY4037 Resource Teaching Fieldwork 1 (8 credit points) with PY4052 Resource Teaching Fieldwork 1A (4 credit points) and PY4053 Resource Teaching Fieldwork 1B (4 credit points), and also replace PY4039 Resource Teaching Fieldwork 2 (8 credit points) with PY4054 Resource

* Offered subject to final approval.

Teaching Fieldwork 2A (4 credit points) and PY4055 Resource Teaching Fieldwork 2B (4 credit points) in the appropriate semesters.

Entry Requirements

To be eligible for admission, an applicant must:

- (i) hold an appropriate degree or Diploma of Teaching (or equivalent); and
- (ii) have had suitable teaching experience; and
- (iii) be recommended by their employing authority as having general personal suitability to fulfil the resource/support teacher role.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
MA4015	Diagnostic Assessment in Mathematics	10	3
PY4030	Learners with Special Needs	10	3
PY4032	Developing Relationships & Groups+	10	4
PY4036	Remediating Literacy Difficulties*+	10	3
PY4037	Resource Teaching Fieldwork 1*+	8	2
Semester 2			
ED4096	Curriculum: Learners with Special Needs	10	3
ED4097	Socio-cultural Issues in Education	10	3
PY4038	Study Skills, Literacy & Learning*+	10	3
PY4039	Resource Teaching Fieldwork 2	8	2
PY4040	Research Methods in Resource Teaching*+ OR	10	3
PY4041	Independent Study in Resource Teaching*+	10	3

■ Graduate Diploma of Education – Secondary Teaching

Location: Kelvin Grove campus

Course Duration: 1 year full-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Ian MacPherson

Entry Requirements

To be eligible for admission, an applicant must:

- (i) hold a recognised degree or in some cases diploma; and
- (ii) have completed major studies in each of the two teaching areas to be studied.

It is proposed to expand eligibility to graduates with studies in depth in one curriculum area.

Course Structure

This course is currently under review and information on its structure and subjects is not currently available.

* Subject available for part-time (evening) students.

+ Subject available for part-time (external) students.

■ Graduate Diploma of Education – Teacher-Librarianship (GDTL)

Location: Kelvin Grove campus

Course Duration: 1 year full-time, 1.5 years full-time/part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Geoff Chapman

Entry Requirements

To be eligible for admission, an applicant must:

- (i) hold an appropriate Diploma of Teaching or equivalent; and
- (ii) have had teaching experience, normally at least three years' in the past ten; and
- (iii) have personal suitability.

Professional Recognition

The course is recognised by the Australian Library and Information Association as a specialist professional qualification.

Special Course Requirements

The strand is equivalent to one year of full-time study. Part A is offered on a full-time basis, or part-time during the day in both semesters each year, while Part B is offered on a part-time basis by evening and external studies.

Teachers may seek full-time release on full salary from their employing authorities (non-government and State) to attend Part A. Notification is sent to all schools twice a year and an advertisement appears usually in the April and September issues of the Education Office Gazette.

Course Structure

Credit Points	Contact Hrs/Wk
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Part A: Full-time: Part-time during the day

All Part A subjects are compulsory. Satisfactory completion of all Part A subjects is a prerequisite for the three compulsory Part B subjects and the Directed Study subject.

LB4008	Bibliographic Organisation	9	3
LB4009	School Experience	3	-
LB4010	The School Library in Modern Education	9	3
ME4007	Media Production & Use	9	3
RS4015	Resources: Selection & Use	9	4
RS4016	Reference Services & Materials 1	9	3

Part B: Part-time (Evening and/or External); Full-time (Evening and/or External)

This component is offered by evening and external study, although not all subjects will necessarily be available in both modes.

Students are required to complete at least 48 credit points as follows:

Compulsory (30 credit points)

LB4001	Resource Service Administration	10	-
RS4004	Reference Services & Materials 2	10	-
RS4013	Collection Development for Learning	10	-

Electives (18 credit points required)

LB4011	Books & Publishing	9	-
LB4012	Directed Study Unit	9	-
LB4013	Special Seminar	9	-
ME4008	Media, School & Society	9	-
PG4006	Photography in Education 1	9	-
RS4017	Australian Literature for Young People	9	-
RS4018	Issues in Literature for Adolescents	9	-
RS4019	Issues in Literature for Children	9	-
RS4020	Storytelling	9	3

Note: Up to 9 credit points may be taken from another institution or from another university course with prior approval of the Course Coordinator.

■ Bachelor of Education – Secondary (BESE)

Location: Kelvin Grove campus

Course Duration: 4 years full-time

Total Credit Points: 400

Course Coordinator: Mr Wayne Hindsley

Course Structure

PROFESSIONAL STUDIES STRAND

Sub-Strand: Culture and Education Studies
(80 credit points required)

Compulsory Subjects

Year 1, Semester 1

SY3013	Australian Society & Identity	10	3
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Year 1, Semester 2

SY3014	Australian Culture in a World Context	10	3
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Year 2, Semester 1 or 2

ED3053	Education & Society	10	3
	OR		
PY3053	Adolescent Development & Human Relationships	10	3
	OR		
PY3054	Psychology of Learning & Teaching	10	3

Year 3, Semester 2

PY3053	Adolescent Development & Human Relationshipsp	10	3
	OR		
PY3054	Psychology of Learning & Teaching	10	3

Electives

Year 3, Semester 1 (10 credit points required)

ED3037	Teaching & Classroom Contexts	10	3
ED3038	Empowering Teachers for School-based Change	10	3
ED3054	Education for Transformation	10	3
ED3055	Teachers as Mediators of Change	10	3
ED3056	Powerful Teaching 1	10	3
ED3057	Approaches to Teaching	10	3

Sequence of Study – Bachelor of Education – Secondary (Kelvin Grove campus)

STRAND	SUB-STRAND	YEAR 1		YEAR 2		YEAR 3		YEAR 4		TOTAL
		Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	
Professional Studies	Culture & Education	SY3013 Australian Society & Identity (10 CPs)	SY3014 Australian Culture in a World Context (10 CPs)	PY3053 Adolescent Development & Human Relationships (10 CPs) OR PY3054 Psychology of Learning & Teaching (10 CPs) OR ED3053 Education & Society (10 CPs)+	PY3053 Adolescent Development & Human Relationships (10 CPs) OR PY3054 Psychology of Learning & Teaching (10 CPs) OR ED3053 Education & Society (10 CPs)+	Elective (10 CPs)	PY3053 Adolescent Development & Human Relationships (10 CPs) OR PY3054 Psychology of Learning & Teaching (10 CPs)	Elective (10 CPs)	Elective (10 CPs)	80
	Curriculum & Teaching					CU3005 Introduction to Curriculum & Teaching A (15 CPs) CU3006 Introduction to Curriculum & Teaching B (15 CPs)	CU3007 Curriculum Planning & Development A (10 CPs)	CU3008 Curriculum Planning & Development B (10 CPs)	CU3009 Directions & Issues in Curriculum Development A (10 CPs) CU3010 Directions & Issues in Curriculum Development B (10 CPs) TS3003 The Beginning Teacher (10 CPs)	80
	Integrated Field Studies Components				PT3001 Integrated Field Studies 1A (20 CPs) PT3002 Integrated Field Studies 1B (20 CPs)			PT3003 Integrated Field Studies 2A (20 CPs) PT3004 Integrated Field Studies 2B (20 CPs)		80
Discipline Studies*		Discipline Studies A (20 CPs) Discipline Studies B (10 CPs)	Discipline Studies A (10 CPs) Discipline Studies B (20 CPs)	Discipline Studies A (20 CPs) Discipline Studies B (10 CPs)	Discipline Studies A (10 CPs) Discipline Studies B (20 CPs)		Discipline Studies A (10 CPs) Discipline Studies B (10 CPs)	Discipline Studies A (10 CPs) Discipline Studies B (10 CPs)		160
	TOTALS	40	40	40	40	80	40	40	80	400

* Depending on a student's choice within this strand, different patterns of study may apply.

+ In Year 2, Semester 1 half of the students will do one of the psychology subjects (PY3053 or PY3054) while the other half will do ED3053; in Semester 2 the reverse in the case.

Year 4, Semester 1 (10 credit points required)

ED3027	Independent Study	10	-
ED3031	Critical Analysis of Schooling	10	3
ED3032	Issues in Aboriginal Education	10	3
ED3033	Critical Perspectives on School Knowledge	10	3
ED3040	Gender & Curriculum	10	3
ED3041	Teachers, Career & Gender	10	3
ED3042	Radical Education	10	3
ED3043	Tackling Educational Problems: International Perspective	10	3
ED3044	Educators & the Law	10	3
ED3045	School-Community Relationships	10	3
ED3046	Personal Philosophy of Education	10	3
ED3047	Teachers as Leaders	10	3
ED3048	Powerful Teaching	10	3
ED3049	Teachers & Students: From Alienation to Empowerment	10	3
ED3050	Technology & Educational Futures	10	3
ED3058	Developments in Australian Education	10	3
ED3059	Who's Intelligent: How Education Decides	10	3
ED3060	Assessment Theory & Practice	10	3
PI3001	Beliefs, Philosophy & Education	10	3
PI3003	Philosophy of Science	10	3
SY3015	Youth in Contemporary Society	10	3
SY3016	Language & Power	10	3
SY3017	Race & Ethnic Relations	10	3
SY3020	Understanding the System	10	3
SY3022	Media & Society	10	3
SY3023	Peace Studies	10	3
SY3024	Technology, the Environment & Moral Dilemmas	10	3
SY3025	Children's Culture	10	3
SY3028	Discipline & Punishment	10	3
SY3030	Gender & Schooling	10	3

Year 4, Semester 2 (10 credit points required)

PY3055	Contemporary Issues in Adolescence	10	3
PY3056	Advanced Classroom Management & Discipline	10	3
PY3057	Gifted Children in Regular Schools	10	3
PY3058	Helping Students with Learning Problems	10	3
PY3059	Innovative Teaching Methods	10	3
PY3060	The Teacher as Counsellor	10	3

Sub-Strand: Curriculum and Teaching Studies
(160 credit points required)**Year 2, Semester 2**

PT3001	Integrated Field Studies 1A (continued in Year 3 Semester 1)		
PT3002	Integrated Field Studies 1B (continued in Year 3, Semester 1)		

Year 3, Semester 1

CU3005	Introduction to Curriculum & Teaching Studies A	15	-
CU3006	Introduction to Curriculum & Teaching Studies B	15	-
PT3001	Integrated Field Studies 1A	20	-
PT3002	Integrated Field Studies 1B	20	-

Year 3, Semester 2

CU3007	Curriculum Planning & Development A	10	-
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Year 4, Semester 1

CU3008	Curriculum Planning & Development B	10	-
PT3003	Integrated Field Studies 2A (continued in Year 4, Semester 2)		
PT3004	Integrated Field Studies 2B (continued in Year 4, Semester 2)		

Year 4, Semester 2

CU3009	Directions & Issues in Curriculum Development A	10	-
CU3010	Directions & Issues in Curriculum Development B	10	-
PT3003	Integrated Field Studies 2A	20	-
PT3004	Integrated Field Studies 2B	20	-
TS3003	The Beginning Teacher	10	-

DISCIPLINE STUDIES STRAND

(160 credit points required)

Discipline Studies have been organised so that a student may specialise in one or two teaching subjects appropriate to Years 8-12. Students may choose to:

- (i) complete two equal majors (80 credit points per major) eg, English and History.
- (ii) complete an extended major in one subject (100 credit points) and a minor in a second subject (60 credit points) eg, Physical Education and Mathematics.
- (iii) complete a double major in one broad area (160 credit points) eg, Science or Social Science.

Initial entry into the course will be into one of the following course streams as shown in Table 1.

Table 1: Entry into Course Streams

Course Stream	Subjects Offered
Arts	Art Drama
Business Education	Accounting/Business Management Economics Legal Studies Office Administration
Communication	English Film & Media Studies French Italian
Home Economics	Home Economics
Physical Education	Physical Education
Science/Mathematics	Computing Mathematics Science Studies
Social Science	Geography History Social Science

Most course streams will allow students to complete all of their discipline studies (ie, a double major) within the one area. Students will be counselled as to the possible effect such specialisation may have on their future employability. It is envisaged that most students will seek to spread their discipline studies across two teaching subjects. Combinations of teaching subjects will be limited by timetable constraints as indicated in Table 2.

Table 2: Possible Combinations of Subjects Areas**Group A**

Accounting/Business Management
 English
 Film & Media Studies
 French
 Geography
 History
 Human Relationships Education
 Italian
 Mathematics
 Office Administration
 Mathematics
 Science Studies

Group B

Accounting/Business Management
 Art
 Biology
 Chemistry
 Computing
 Drama
 Earth Science
 Economics
 English
 Environmental Studies
 French
 Home Economics
 Italian
 Legal Studies
 Physical Education
 Physics
 Social Science

Notes:

1. Where the same subject area is listed in both groups (eg English), it may only be selected once.
2. An extended major in Science Studies is a co-requisite for studying senior sciences – Biology, Chemistry, Earth Science and Physics.
3. Computing may only be taken in combination with either Mathematics or Office Administration.
4. Environmental Studies may only be taken in combination with Geography or Science Studies.
5. Special arrangements have been made so that students choosing Mathematics or Geography (in Group A) can also choose Science Studies.
6. There will be limited places in Physical Education as a second teaching area. Preference will be given to students who have completed four semesters of Physical Education in years 11 and 12 and who have attained high academic results.

ACCOUNTING/BUSINESS MANAGEMENT**Minor (60 credit points required)**

AC3040	Introductory Accounting	10	5
AC3041	Accounting 1	10	5
AC3042	Business Management	10	3
AC3043	Computers in Accounting Education 1	10	4
AC3044	Management Accounting	10	3
AC3045	Small Business Enterprise	10	3
	OR		
AC3046	Computers in Accounting Education 2	10	4

Major (80 credit points required)

AC3040	Introductory Accounting	10	5
AC3041	Accounting 1	10	5
AC3042	Business Management	10	3
AC3043	Computers in Accounting Education 1	10	4
AC3044	Management Accounting	10	3
AC3045	Small Business Enterprise	10	3
AC3046	Computers in Accounting Education 2	10	4
AC3047	Accounting 2	10	4
	OR		
AC3048	Business Organisation	10	3

Extended Major (100 credit points required)

AC3040	Introductory Accounting	10	5
AC3041	Accounting 1	10	5
AC3042	Business Management	10	3
AC3043	Computers in Accounting Education 1	10	4
AC3044	Management Accounting	10	3
AC3045	Small Business Enterprise	10	3
AC3046	Computers in Accounting Education 2	10	4
AC3048	Business Organisation	10	3
AC3049	Corporate Finance	10	4
AC3050	Financial Accounting	10	4

ART**Extended Major (100 credit points required)**

AR3018	The Making of Modernism	10	4
AR3019	European & American Art	10	4
AR3021	History of Australian Art	10	4
AR3028	Foundation Art Studies 1	20	12
AR3029	Advanced Arts Studies 2	10	6
AR3031	Foundation Art Studies 2	20	12
AR3032	Advanced Art Studies 1	10	6

COMPUTER EDUCATION**Extended Major (100 credit points required)**

CO3060	Computer Systems & Architecture	10	3
CO3061	Computer Applications	10	3
CO3062	Computational & Mathematical Foundations	10	3
CO3063	Data Base Theory & Techniques	10	3
CO3064	Programming Principles	10	3
CO3065	Information Systems Modelling	10	3
CO3066	Artificial Intelligence	10	3
CO3067	Programming Languages	10	3
CO3068	Computational Linguistics	10	3
	OR		
CO3069	Robotics & Control Technology	10	3
CO3070	Project Planning & Implementation	10	3

Double Major (160 credit points required)

AC3040	Introductory Accounting	10	5
CO3060	Computer Systems & Architecture	10	3
CO3061	Computer Applications	10	3
CO3062	Computational & Mathematical Foundations	10	3
CO3063	Data Base Theory & Technique	10	3
CO3064	Programming Principles	10	3
CO3065	Information Systems Modelling	10	3
CO3066	Artificial Intelligence	10	3
CO3067	Programming Languages	10	3
CO3068	Computational Linguistics	10	3
	OR		
CO3069	Robotics & Control Technology	10	3
CO3070	Project Planning & Implementation	10	3
MA3016	Operations Research	10	3

Five electives selected from the following:

AC3043	Business Information Systems	10	4
CO3071	Computer Education Project	10	3
CO3072	Information System Implementation 1	10	3
CO3073	Information System Implementation 2	10	3
CO3074	Heuristic Programming	10	3
CO3075	Human-Computer Interaction	10	3
MA3036	Advanced Operations Research	10	3

DRAMA**Extended Major (100 credit points required)**

DR3006	Voice & Movement 1	10	4
DR3014	Elements of Drama	10	4
DR3019	Drama Process	10	3
DR3096	Children's Play to Performance	10	4
DR3098	Forming Knowledge	10	4
DR3099	Advanced Drama Process	10	4
DR3108	Theatre Project	20	8

Two electives selected from the following:

DR3012	Development of Theatre 1	10	3
DR3013	Development of Theatre 2	10	3
DR3023	Theatre Studies Option	10	4

ECONOMICS**Minor (60 credit points required)**

EC3040	Introduction to Economics	10	3
EC3041	Microeconomics	10	3
EC3042	Macroeconomics	10	3
EC3043	International Economics	10	3

Two electives from the following list:

EC3044	Economic Development	10	3
EC3045	Comparative Economic Systems	10	3
EC3046	Australian Political Economy	10	3
EC3047	Resource Planning & Development	10	3
EC3048	Asian Economies	10	3
EC3050	Consumer Studies	10	3

Major (80 credit points required)

EC3040	Introduction to Economics	10	3
EC3041	Microeconomics	10	3
EC3042	Macroeconomics	10	3
EC3043	International Economics	10	3
EC3044	Economic Development	10	3
EC3045	Comparative Economic Systems	10	3

Two electives from the following list:

EC3046	Australian Political Economy	10	3
EC3047	Resource Planning & Development	10	3
EC3048	Asian Economies	10	3
EC3050	Consumer Studies	10	3

ENGLISH**Minor (60 credit points required)**

EN3035	Approaches to Cultural Studies	10	3
EN3036	Studies in Language	10	3
EN3037	The Media & Society	10	4
EN3038	Australian Literary Studies	10	3
EN3039	Literature in Teaching	10	3

One elective selected from the following:

EN3040	Modern British Literature	10	3
EN3041	Nineteenth Century Literature	10	3
EN3042	American Literature	10	3
FI3000	Film Language	10	4

Major (80 credit points required)

EN3035	Approaches to Cultural Studies	10	3
EN3036	Studies in Language	10	3
EN3037	The Media & Society	10	4
EN3038	Australian Literary Studies	10	3
EN3039	Literature in Teaching	10	3
FI3000	Film Language	10	4

One elective selected from the following:

EN3040	Modern British Literature	10	3
EN3041	Nineteenth Century Literature	10	3
EN3042	American Literature	10	3

One elective selected from List 218: English Electives

Extended Major (100 credit points required)

EN3035	Approaches to Cultural Studies	10	3
EN3036	Studies in Language	10	3
EN3037	The Media & Society	10	4
EN3038	Australian Literary Studies	10	3
EN3039	Literature in Teaching	10	3
FI3000	Film Language	10	4

Two electives selected from the following:

EN3040	Modern British Literature	10	3
EN3041	Nineteenth Century Literature	10	3
EN3042	American Literature	10	3

Two electives selected from List 218: English Electives

Double Major (160 credit points required)

Students pursuing a double major in English and Film and Media Studies will find subjects EN3035 Approaches to Cultural Studies, EN3037 The Media and Society and FI3000 Film Language common to both sub-strands. Students will therefore select three additional electives, including at least one from List 218: English Electives and one from List 219: Film and Media Studies Electives.

List 218: English Electives

EN3043	Young Adult Fiction	10	3
EN3044	Shakespeare in the Elizabethan World	10	3
EN3045	Women in Literature & the Media	10	3
EN3046	Australian Culture & Television	10	3
EN3047	Children's Literature	10	3
EN3048	Aboriginal Writing	10	3
EN3049	Classical & Medieval Literature	10	3
EN3050	Teaching English as a Second Language	10	3
EN3051	Storytelling	10	3
EN3052	Contemporary Approaches to Literacy	10	3
EN3053	Modernism & Post-Modernism	10	3
EN3054	Writing Workshop	10	3
FI3001	Film, Society & Culture	10	3
FI3002	Australian Film	10	3
FI3003	Asian Cinema	10	3
FI3004	European Cinema	10	3

FILM AND MEDIA STUDIES

Minor (60 credit points required)

EN3035	Approaches to Cultural Studies	10	3
EN3037	The Media & Society	10	4
FI3000	Film Language	10	4
FI3005	Media Praxis 1	10	4
FI3006	Media Praxis 2	10	4

One elective selected from the following:

EN3046	Australian Culture & Television	10	3
FI3001	Film, Society & Culture	10	4
FI3002	Australian Film	10	3

Major (80 credit points required)

EN3035	Approaches to Cultural Studies	10	3
EN3037	The Media & Society	10	4
EN3046	Australian Culture & Television	10	3
FI3000	Film Language	10	4

FI3001	Film, Society & Culture	10	4
FI3002	Australian Film	10	3
FI3005	Media Praxis 1	10	4
FI3006	Media Praxis 2	10	4

Extended Major (100 credit points required)

EN3035	Approaches to Cultural Studies	10	3
EN3037	The Media & Society	10	4
EN3046	Australian Culture & Television	10	3
FI3000	Film Language	10	4
FI3001	Film, Society & Culture	10	4
FI3002	Australian Film	10	3
FI3005	Media Praxis 1	10	4
FI3006	Media Praxis 2	10	4

Two electives selected from List 219: Film and Media Studies Electives

Double Major (160 credit points required)

Students pursuing a double major in Film and Media Studies and English will find subjects EN3035 Approaches to Cultural Studies, EN3037 The Media and Society and FI3000 Film Language common to both sub-strands. Students will therefore select three additional electives, including at least one from List 218: English Electives and one from List 219: Film and Media Studies Electives.

List 219: Film and Media Studies Electives

EN3045	Women in Literature & the Media	10	3
FI3003	Asian Cinema	10	3
FI3004	European Cinema	10	3
FI3007	Documentary Film	10	3
FI3008	Film Genres	10	3
FI3009	Media Praxis 3	10	3
FI3010	Media Institutions	10	3
FI3011	Film History	10	3

FRENCH

Minor (60 credit points required)

ML3005	French Language 1	10	5
ML3006	French Language 2	10	5
ML3007	French Language & Literature 1	10	3
ML3008	French Language & Literature 2	10	3
SS3035	Modern European Studies	10	3
SS3036	European Cultural History	10	3

Major (80 credit points required)

ML3005	French Language 1	10	5
ML3006	French Language 2	10	5
ML3007	French Language & Literature 1	10	3
ML3008	French Language & Literature 2	10	3
ML3009	French Language & Literature 3	10	3
ML3010	French Language & Literature 4	10	3
SS3035	Modern European Studies	10	3
SS3036	European Cultural History	10	3

Extended Major (100 credit points required)

FI3004	European Cinema	10	3
LI3004	Comparative European Literature	10	3
ML3005	French Language 1	10	5
ML3006	French Language 2	10	5
ML3007	French Language & Literature 1	10	3
ML3008	French Language & Literature 2	10	3
ML3009	French Language & Literature 3	10	3
ML3010	French Language & Literature 4	10	3
SS3035	Modern European Studies	10	3
SS3036	European Cultural History	10	3

GEOGRAPHY

Minor (60 credit points required)

GE3005	Introduction to Cultural Geography	10	3
GE3006	People & the Natural Environment 1	10	2
GE3007	Introduction to Geography	10	3

Three subjects selected from List 231: Level 2 Geography Electives

Major (80 credit points required)

GE3005	Introduction to Cultural Geography	10	3
GE3006	People & the Natural Environment 1	10	2
GE3007	Introduction to Geography	10	3

Three subjects selected from List 231: Level 2 Geography Electives

Two subjects selected from List 232: Level 3 Geography Electives

Extended Major (100 credit points required)

GE3005	Introduction to Cultural Geography	10	3
GE3006	People & the Natural Environment 1	10	2
GE3007	Introduction to Geography	10	3

Four subjects selected from List 231: Level 2 Geography Electives

Three subjects selected from List 232: Level 3 Geography Electives

List 231: Level 2 Geography Electives

GE3008	People & the Natural Environment 2	10	3
GE3009	Australian Geographical Studies	10	3
GE3010	Living in Cities	10	3
SS3043	Australia & Third World Issues	10	3

List 232: Level 3 Geography Electives

GE3011	Advanced Geographical Techniques	10	3
GE3012	Environmental Hazards	10	3
GE3013	Asian Geographical Studies	10	3
GE3014	Resources Planning & Development	10	3
GE3015	Advanced Urban Geography	10	3

HISTORY

Minor (60 credit points required)

HI3010	Understanding History	10	3
HI3011	Modern Political Ideologies	10	3
HI3012	Australian Studies	10	3

Three subjects selected from List 233: Level 2 History Electives

Major (80 credit points required)

HI3010	Understanding History	10	3
HI3011	Modern Political Ideologies	10	3
HI3012	Australian Studies	10	3

Three or four subjects selected from List 233: Level 2 History Electives

One or two subjects selected from List 234: Level 3 History Electives

Extended Major (100 credit points required)

HI3010	Understanding History	10	3
HI3011	Modern Political Ideologies	10	3
HI3012	Australian Studies	10	3

Five subjects selected from List 233: Level 2 History Electives

Two subjects selected from List 234: Level 3 History Electives

List 233: Level 2 History Electives

HI3013	Emergence of Civilisation	10	3
HI3014	The Classical World	10	3
HI3015	Modern China & Japan	10	3
HI3016	Modern India & South East Asia	10	3
HI3017	European Studies 1	10	3
HI3018	European Studies 2	10	3

HI3019	American Studies	10	3
HI3020	Women in Australian History	10	3
SS3042	Aboriginal Culture Studies	10	3
SS3043	Australia & Third World Issues	10	3

List 234: Level 3 History Electives

HI3021	History Seminar 1	10	3
HI3022	History Seminar 2	10	3

HOME ECONOMICS

Minor (60 credit points required)

FD3030	Food & Nutrition 1	10	6
HO3010	Shelter	10	4
HS3015	Home Economics: Conceptual Foundations	10	4
PY3031	Human Development & Relationships	10	4
SC3015	Science Foundations	10	6
TX3000	Textiles 1	10	6

Major (80 credit points required)

FD3030	Food & Nutrition 1	10	6
HO3010	Shelter	10	4
HS3015	Home Economics: Conceptual Foundations	10	4
PY3031	Human Development & Relationships	10	4
SC3015	Science Foundations	10	6
TX3000	Textiles 1	10	6

Two subjects selected from List 224: Home Economics Electives

Extended Major (100 credit points required)

FD3030	Food & Nutrition 1	10	6
HO3010	Shelter	10	4
HS3015	Home Economics: Conceptual Foundations	10	4
PY3031	Human Development & Relationships	10	4
SC3015	Science Foundations	10	6
TX3000	Textiles 1	10	6

Four subjects selected from List 224: Home Economics Electives

List 224: Home Economics Electives

FD3031	Food & Nutrition 2	10	6
FD3032	Food Science & Technology	10	4
FD3033	Food Preparation & Presentation	10	6
HO3011	Shelter Design	10	4
SY3034	Families & Society	10	4
SY3035	Families in Other Cultures	10	4
TX3001	Textiles 2	10	6
TX3002	Textiles: Supervised Project	10	3
TX3003	Consumer Textiles	10	6

HUMAN RELATIONSHIPS

Minor (60 credit points required)

PY3033	Personal & Interpersonal Change	10	3
PY3034	Interpersonal Relationships & Group Processes	10	3
PY3035	Human Sexuality	10	3
PY3046	Human Relationships: A Sociological Perspective	10	3
PY3051	Social Ethics & Human Relationships	10	3
PY3052	Counselling Psychology	10	3

ITALIAN

Minor (60 credit points required)

ML3017	Italian Language 1	10	4
ML3018	Italian Language 2	10	4
SS3035	Modern European Studies	10	3
SS3036	European Cultural History	10	3

Two electives selected from the following:

ML3019	Italian Language & Literature 1	10	3
ML3020	Italian Language & Literature 2	10	3
ML3021	Italian Language & Literature 3	10	3
ML3022	Italian Language & Literature 4	10	3

Major (80 credit points required)

ML3017	Italian Language 1	10	4
ML3018	Italian Language 2	10	4
ML3019	Italian Language & Literature 1	10	3
ML3020	Italian Language & Literature 2	10	3
ML3021	Italian Language & Literature 3	10	3
ML3022	Italian Language & Literature 4	10	3
SS3035	Modern European Studies	10	3
SS3036	European Cultural History	10	3

Extended Major (100 credit points required)

FI3004	European Cinema	10	3
LI3004	Comparative European Literature	10	3
ML3017	Italian Language 1	10	4
ML3018	Italian Language 2	10	4
ML3019	Italian Language & Literature 1	10	3
ML3020	Italian Language & Literature 2	10	3
ML3021	Italian Language & Literature 3	10	3
ML3022	Italian Language & Literature 4	10	3
SS3035	Modern European Studies	10	3
SS3036	European Cultural History	10	3

LEGAL STUDIES

Minor (60 credit points required)

LW3020	The Law & Legal Institutions	10	3
LW3021	Law of Contract	10	3
LW3022	Law of Torts	10	3
LW3023	Criminal Law & Procedure	10	3
LW3024	Individual Legal Responsibilities	10	3

One elective from the following:

LW3027	Educators & the Law	10	3
LW3028	Introduction to Law & Social Justice	10	3

Major (80 credit points required)

LW3020	The Law & Legal Institutions	10	3
LW3021	Law of Contract	10	3
LW3022	Law of Torts	10	3
LW3023	Criminal Law & Procedure	10	3
LW3024	Individual Legal Responsibilities	10	3
LW3025	Legal Environment of Business	10	3
LW3026	Commercial Law	10	3

One elective from the following:

LW3027	Educators & the Law	10	3
LW3028	Introduction to Law & Social Justice	10	3

MATHEMATICS

Minor (60 credit points required)

MA3010	Mathematical Methods 1	10	3
MA3011	Mathematical Methods 2	10	3
MA3012	Calculus 1	10	3
MA3013	Probability & Statistics 1	10	3

Two subjects selected from List 226: Level 2 Mathematics Electives and List 227:

Level 3 Mathematics Electives

Major (80 credit points required)

MA3010	Mathematical Methods 1	10	3
MA3011	Mathematical Methods 2	10	3

MA3012	Calculus 1	10	3
MA3013	Probability & Statistics 1	10	3
Two subjects selected from List 226: Level 2 Mathematics Electives			
Two subjects selected from List 227: Level 3 Mathematics Electives			
Extended Major (100 credit points required)			
MA3010	Mathematical Methods 1	10	3
MA3011	Mathematical Methods 2	10	3
MA3012	Calculus 1	10	3
MA3013	Probability & Statistics 1	10	3
Three subjects selected from List 226: Level 2 Mathematics Electives			
Three subjects selected from List 227: Level 3 Mathematics Electives			
Double Major (160 credit points required)			
MA3010	Mathematical Methods 1	10	3
MA3011	Mathematical Methods 2	10	3
MA3012	Calculus 1	10	3
MA3013	Probability & Statistics 1	10	3
Two subjects selected from List 225: Level 1 Mathematics Electives			
MA3017	Modern Algebra	10	3
MA3018	Linear Algebra	10	3
MA3019	Calculus 2	10	3
MA3020	Probability & Statistics 2	10	3
Two subjects selected from List 226: Level 2 Mathematics Electives			
Four subjects selected from List 227: Level 3 Mathematics Electives			
List 225: Level 1 Mathematics Electives			
CO3062	Computational & Mathematical Foundations	10	3
MA3014	Applied Mathematics 1	10	3
MA3015	Numerical Analysis	10	3
MA3016	Operations Research	10	3
List 226: Level 2 Mathematics Electives			
MA3017	Modern Algebra	10	3
MA3018	Linear Algebra	10	3
MA3019	Calculus 2	10	3
MA3020	Probability & Statistics 2	10	3
MA3021	Applied Mathematics 2	10	3
MA3022	Differential Equations & Applications	10	3
MA3023	Number Theory	10	3
MA3024	Geometrics	10	3
List 227: Level 3 Mathematics Electives			
MA3025	Real Analysis	10	3
MA3026	Complex Analysis	10	3
MA3027	Data Analysis & Experimental Design	10	3
MA3028	Advanced Applied Mathematics	10	3
MA3035	Advanced Numerical Analysis	10	3
MA3036	Advanced Operations Research	10	3
MA3037	History of Mathematics	10	3
OFFICE ADMINISTRATION			
Minor (60 credit points required)			
AD3025	Office Technology 1	10	3
AD3026	Office Skills 1	10	4
AD3027	Business Communications	10	3
AD3028	Records Management	10	3
AD3029	Executive Secretarial Function	10	3
One elective selected from the following:			
AD3030	Office Technology 2	10	3
AD3031	Office Transcription A	10	4

Major (80 credit points required)

AD3025	Office Technology 1	10	3
AD3026	Office Skills	10	4
AD3027	Business Communications	10	3
AD3028	Records Management	10	3
AD3029	Executive Secretarial Function	10	3
AD3030	Office Technology 2	10	3

Two electives selected from the following:

AD3031	Office Transcription A	10	4
	OR		
AD3032	Office Transcription B	10	4
AD3033	Supervision & Administration	10	3
AD3034	Office Management	10	3
AD3035	Field Study Project	10	2

Extended Major (100 credit points required)

AD3025	Office Technology 1	10	3
AD3026	Office Skills 1	10	4
AD3027	Business Communications	10	3
AD3028	Records Management	10	3
AD3029	Executive Secretarial Function	10	3
AD3030	Office Technology 2	10	3
AD3031	Office Transcription A	10	4
	OR		
AD3032	Office Transcription B	10	4
AD3033	Supervision & Administration	10	3
AD3034	Office Management	10	3
AD3035	Field Study Project	10	2

PHYSICAL EDUCATION**Minor (60 credit points required)**

PE3010	Motor Development & Skills Acquisitions	10	5
PE3011	Anatomy & Biomechanics	10	5
PE3012	Exercise Physiology	10	5
PE3013	Foundations of Physical Education	10	5

Two subjects selected from List 229: Level 2 Physical Education Electives

Major (80 credit points required)

PE3010	Motor Development & Skills Acquisitions	10	5
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Two subjects selected from the following:

PE3011	Anatomy & Biomechanics	10	5
PE3012	Exercise Physiology	10	5
PE3013	Foundations of Physical Education	10	5

Three subjects selected from List 228: Level 1 Group B Physical Education Electives

Two subjects selected from List 229: Level 2 Physical Education Electives

Extended Major (100 credit points required)

PE3010	Motor Development & Skills Acquisitions	10	5
PE3011	Anatomy & Biomechanics	10	5
PE3012	Exercise Physiology	10	5
PE3013	Foundations of Physical Education	10	5

Three subjects selected from List 228: Level 1 Group B Physical Education Electives

Two subjects selected from List 229: Level 2 Physical Education Electives

One subject selected from List 230: Level 3 Physical Education Electives

Double Major (160 credit points required)

PE3010	Motor Development & Skills Acquisitions	10	5
PE3011	Anatomy & Biomechanics	10	5
PE3012	Exercise Physiology	10	5
PE3013	Foundations of Physical Education	10	5

Four subjects selected from List 228: Level 1 Group B Physical Education Electives

Six subjects selected from List 229: Level 2 Physical Education Electives

Two subjects selected from List 230: Level 3 Physical Education Electives

List 228: Level 1 Group B Physical Education Electives

PE3014	Performance Skills 1	10	6
PE3015	Performance Skills 2	10	6
PE3016	Performance Skills 3	10	6
PE3017	Outdoor Education	10	6

List 229: Level 2 Physical Education Electives

HE3002	Health in Australian Society	10	3
PE3018	Research in Movement Studies	10	3
PE3019	Performance Development	10	3
PE3020	Administration in PE & Sport	10	3
PE3021	Sociology of Sport & Leisure	10	3
PE3022	Adapted Physical Activity	10	3
PE3023	Sport & Fitness Management	10	3

List 230: Level 3 Physical Education Electives

PE3024	Advanced Skill Laboratories	10	3
PE3025	Independent Study	10	3
PE3026	Human Performance Analysis	10	3
PE3027	Trends & Issues in Sports Science	10	3

SCIENCE

Major (80 credit points required)

BI3012	Patterns of Life	10	4
BI3013	Human Physiology	10	4
CH3005	Foundations of Chemistry	10	4
CH3006	General Chemistry	10	4
ER3002	Dynamic Earth	10	4
ER3003	Exploration of the Universe	10	4
PH3005	Physics Fundamentals 1A	10	4
PH3006	Physics Fundamentals 1B	10	4

Extended Major (100 credit points required)

BI3012	Patterns of Life	10	4
BI3013	Human Physiology	10	4
CH3005	Foundations of Chemistry	10	4
CH3006	General Chemistry	10	4
CH3080	Computing for Science Educators	10	4
ER3002	Dynamic Earth	10	4
ER3003	Exploration of the Universe	10	4
PH3005	Physics Fundamentals 1A	10	4
PH3006	Physics Fundamentals 1B	10	4
SC3016	Science, Technology & Society	10	4

Minor in the Senior Sciences (60 credit points required)

To undertake studies in the Senior Sciences students must have completed an extended major in Science. Students have the option of specialising in two of the following concentration areas: Biology, Chemistry, Earth Science and Physics.

Biology

BI3014	Ecology	10	4
BI3015	Structures & Functions in Biology	10	4
MB3025	Microbiology	10	5
	OR		
PE3011	Anatomy & Biomechanics	10	5
	OR		
PE3017	Outdoor Education	10	6
	OR		
SC3017	Marine Studies	10	4
	OR		
SC3018	Organic & Biological Chemistry	10	4

Chemistry

CH3007	Principles of Inorganic Chemistry	10	4
CH3008	Principles of Physical Chemistry	10	4
SC3017	Marine Studies	10	4
	OR		
SC3018	Organic & Biological Chemistry	10	4
	OR		
SC3019	Chemistry & Physics of the Environment	10	4

Earth Science

ER3004	Australian Geology	10	4
ER3005	Geological Environments	10	4
SC3017	Marine Studies	10	4
	OR		
SC3020	The Physical Universe	10	4

Physics

PH3007	Atomic & Nuclear Physics	10	4
PH3008	Electronics	10	4
SC3019	Chemistry & Physics of the Environment	10	4
	OR		
SC3020	The Physical Universe	10	4

SOCIAL SCIENCE**Minor (60 credit points required)**

SS3040	Local Community	10	3
SS3041	Introduction to the Social Sciences	10	3
SS3048	Consumerism	10	3

Three subjects selected from List 235: Level 2 Social Science Electives

Major (80 credit points required)

SS3040	Local Community	10	3
SS3041	Introduction to the Social Sciences	10	3
SS3048	Consumerism	10	3

Three or four subjects selected from List 235: Level 2 Social Science Electives

One or two subjects selected from List 236: Level 3 Social Science Electives

Extended Major (100 credit points required)

SS3040	Local Community	10	3
SS3041	Introduction to the Social Sciences	10	3
SS3048	Consumerism	10	3

Five subjects selected from List 235: Level 2 Social Science Electives

Two subjects selected from List 236: Level 3 Social Science Electives

List 235: Level 2 Social Science Electives

GE3009	Australian Geographical Studies	10	3
GE3010	Living in Cities	10	3
HI3011	Modern Political Ideologies	10	3
HI3012	Australian Studies	10	3
SS3042	Aboriginal Culture Studies	10	3
SS3043	Australia & Third World Issues	10	3
SS3044	Australian Citizenship	10	3
SS3045	Contemporary Global Issues	10	3

List 236: Level 3 Social Science Electives

SS3046	Social Science Seminar 1	10	3
SS3047	Social Science Seminar 2	10	3

■ Bachelor of Teaching – Early Childhood (BTEC)*

Location: Kelvin Grove campus

Course Duration: 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-time Semester: 48

Course Coordinator: Dr Susan Wright

The details of this new course are not available at the time of the production of the Handbook. Information will be available to commencing students with the offer of admission. Other enquiries may be directed to the School of Early Childhood Studies, Kelvin Grove campus.

■ Diploma of Education – Child Care (DTCC)

Location: Kelvin Grove campus

Course Duration: 3 years full-time

Total Credit Points: 360

Course Coordinator: Ms June Kean

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
EE2080	Introduction to Curriculum	10	4
EE2081	Teaching & Caring Strategies 1	5	3
EE2082	Interpersonal Relationships	10	3
EE2300	Development & Learning: Life Span	10	3
PT2947	Programs for Young Children 0-12 Years	5	-
Elective	Select from List 120	5	
Elective	Select from List 120	5	
Elective	Select from List 120	5	
Year 1, Semester 2			
EE2083	Physical, Perceptual & Motor Development & Learning	10	3
EE2084	Curriculum for Exploration & Problem Solving 1	10	3
EE2085	Teaching & Caring Strategies 2	5	3
EE2086	Group Processes	10	3
PT2948	Programs for Infants & Toddlers 0-3 Years	5	-
Elective	Select from List 120	5	
Elective	Select from List 120	5	
Elective	Select from List 120	5	
Year 2, Semester 1			
EE2087	Language & Cognitive Development & Learning	10	3
EE2088	Curriculum for Communication 1	10	4
EE2089	Curriculum for Exploration & Problem Solving 2	10	3
EE2090	Teaching & Caring Strategies 3	5	3
EE2091	Contemporary Australia	10	3
PT2949	Programs for Children 0-3 Years	10	-

* Offered subject to final approval.

Year 2, Semester 2

EE2092	Social & Emotional Development & Learning	10	3
EE2093	Curriculum for Communication 2	10	4
EE2094	Curriculum for Self Expression & Creativity	10	4
EE2095	Teaching & Caring Strategies 4	5	3
EE2608	Working with Parents	10	3
PT2950	Programs for Children 3-5 Years	10	-
Elective	Select from List 121	10	

Year 3, Semester 1

EE2097	Learning & Teaching	10	3
EE2109	Administration of Early Childhood Care Services	10	4
EE2110	Family & Community Process & Policies	10	3
PT2951	Field Project (Children 0-5 Years)	15	-
Elective	Select from List 145	10	
Elective	Select from List 121	10	

Year 3, Semester 2

EE2067	Exceptionality & Young Children	10	3
EE2100	Program Planning	10	3
EE2101	Social Networking	10	3
PT2952	Elective Programs (Children 0-12 Years)	15	-
Elective	Select from List 145	10	
Elective	Select from List 121	10	

First Aid Studies

Successful completion of a current St John's Ambulance First Aid course is a requirement of graduation from this course.

Elective Lists

See pages 364-366.

Conversion/Upgrading Program (DTCV)

Location: Kelvin Grove campus

Course Duration: Three years externally

Total Credit Points: 170

Course Coordinator: Ms June Kean

Special Requirements

Applicants for the external conversion/upgrading course (equivalent to 24 months of full-time study) will be required to have had experience in an early childhood care and education service of at least the equivalent of one year of full-time employment; and successful completion of the Associate Diploma in Child Care (BCAE), or Associate Diploma of Education (TAFE), or a relevant qualification in child care, education, health, or social work equivalent to at least two years' full-time study at tertiary level.

Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 2			
EE2102	Child Development & Learning	20	-
EE2103	Curriculum, Theory & Design for Child Care	10	-

Year 2, Semester 1

EE2104	Teaching & Caring Strategies	10	-
EE2105	Contemporary Australian Family & Community	20	-

Year 2, Semester 2

EE2097	Learning & Teaching	10	-
EE2098	Administration & Program Planning for EC Care Services	20	-

Summer School

PT2951	Field Project (Children 0-5 Years)	15	-
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Year 3, Semester 1

EE2075	Children's Literature	10	-
EE2099	Family & Community Process, Policies & Social Networking	20	-

Year 3, Semester 2

EE2067	Exceptionality & Young Children	10	-
EE2071	Programs for Children Under Three	10	-

Summer School

PT2952	Elective Programs (Children 0-12 years)	15	-
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■ Diploma of Education – Early Childhood (DTEC)**Location:** Kelvin Grove campus**Course Duration:** 3 years full-time**Total Credit Points:** 360**Course Coordinator:** Dr Susan Wright

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ED2345	Education & the Family	10	3
EE2053	Introduction to Curriculum	10	3
EE2300	Development & Learning: Life Span	10	3
EE2600	Teaching Strategies 1	5	3
PT2917	Practice Teaching: Early Childhood	5	-
Elective	Select from List 120	5	
Elective	Select from List 120	5	
Elective	Select from List 120	5	
Year 1, Semester 2			
ED2352	Education & Schooling	10	3
EE2054	Curriculum for Early Learning: 0-5 Years	10	3
EE2301	Physical, Perceptual & Motor Development & Learning	10	3
EE2601	Teaching Strategies 2	5	3
PT2918	Practice Teaching: Pre-school 1	5	-
Elective	Select from List 120	5	
Elective	Select from List 120	5	
Elective	Select from List 120	5	
Year 2, Semester 1			
ED2357	Education & Society 1	10	3
EE2055	The Child as Investigator	10	3

EE2056	Children Communicating	10	3
EE2057	The Child as Creator	10	3
EE2302	Language & Cognitive Development & Learning	10	3
PT2919	Practice Teaching: Pre-school 2	10	-

Year 2, Semester 2

EE2058	Environments for Developing Communication	10	3
EE2059	Environments Promoting the Sciences	10	3
EE2060	Environments Fostering Artistry	10	4
EE2303	Social, Emotional & Creative Development & Learning	10	3
PT2920	Practice Teaching: School 1	10	-
Elective	Select from List 121	10	

Year 3, Semester 1

ED2358	Education & Society 2	10	3
EE2068	Literacy & Numeracy: the Early Years	10	3
EE2604	The Early Childhood Teacher 1	10	3
PT2921	Practice Teaching: School 2	15	-
Elective	Select from List 118	10	
Elective	Select from List 121	10	

Year 3, Semester 2

EE2067	Exceptionality & Young Children	10	3
EE2605	The Early Childhood Teacher 2	10	3
PT2922	Practice Teaching: Pre-school 3	15	
Elective	Select from List 118	10	
Elective	Select from List 119	10	
Elective	Select from List 121	10	

First Aid Studies

Successful completion of a current St John's Ambulance First Aid course is a requirement of graduation from this course. First Aid studies are included in the Year 1 elective – PE2819 Introduction to Human Movement.

Elective Lists

Lists 118, 119, 120, 121

List 118: Studies in Development & Learning/Curriculum & Teaching Electives (20 credit points required)

EE2069	Child Care	10	3
EE2070	Research in Early Childhood Education	10	3
EE2071	Programs for Children Under Three	10	3
EE2074	Special Programs for Young Children	10	3
EE2075	Children's Literature (0-8 years)	10	3
EE2077	Drama with Special Children	10	3
EE2078	Special Physical Education	10	3
EE2111	Cultural Inclusivity in an EC Context	10	3
EE2606	Microcomputers in Early Education	10	3
EE2607	Media for Early Childhood Teachers	10	3
EE2608	Working with Parents	10	3
EE2609	Teaching English as a Second Language	10	3

List 119: Studies in Education Electives (10 credit points required)

ED2365	Families in Crisis	10	2
ED2366	Philosophy & Young Children	10	2
ED2367	The Image of Childhood	10	2
ED2368	Sociology of Parenthood	10	2
ED2369	Alternative Education	10	2
ED2370	Gender, School & Society	10	2
ED2371	Schools & Communities	10	2
ED2372	Socialisation Through Play	10	2
ED2373	Legal Issues & the Teacher	10	2

List 120: First Year Liberal Studies Electives

In first year, students are required to take 30 credit points of Liberal Studies (15 each semester) from six different areas of study.

AR2803	Understanding Art	5	2
CO2802	Personal Computing	5	2
DA2804	Dance Techniques 1	5	2
DR2814	Communication Through Drama	5	3
EN2803	Language & Communication	5	2
MA2809	Foundations of Mathematics	5	3
MU2814	Exploring Music	5	3
MU2829	Creative Music Workshop	5	2
PE2819	Introduction to Human Movement	5	3
PG2804	Photography Production & Analysis	5	2
PY2801	Interpersonal Problem Solving	5	2
SC2816	Discovering Science	5	2
SS2805	Introduction to the Social Sciences	5	2

List 121: Second and Third Year Liberal Studies Electives

In second year, students are required to take a total of 10 credit points of Liberal Studies.

In third year, students are required to take 20 credit points (10 each semester) in any area(s) of study.

Within the Liberal Studies strand it is required that students undertake no more than 20 credit points in one area of study.

COMPUTING

CO2039	Problem Solving with Computer Graphics	5	3
CO2802	Personal Computing	5	2
CO2804	Writing & Computers	5	2
CO2812	Computer Programming	10	5

DANCE

DA2804	Dance Techniques 1	5	2
DA2809	National & Folk Dance	10	3
DA2811	Jazz for Fitness	10	4

HUMAN MOVEMENT

OE2800	Outdoor Pursuits	10	4
PE2819	Introduction to Human Movement	5	3
PE2820	Dance for Recreation	10	4
PE2823	Rhythmic Movement	5	2
PE2824	Personal Health & Fitness	10	4
PE2829	Leisure Education	10	3
PE2830	Games for Recreation	10	3

LANGUAGE AND COMMUNICATION

EN2000	Storytelling in Various Media	5	2
EN2044	Contrasts in Australian Literature	10	4
EN2050	Fantasy & Science Fiction	5	2
EN2058	The Mass Media in Australia	5	2
EN2803	Language & Communication	5	2

MATHEMATICS

MA2809	Foundations of Mathematics	5	3
MA2811	Numbers for All Ages	5	3
MA2812	Recreational Mathematics for All	5	2

MUSIC

MU2800	Guitar Workshop	5	2
MU2802	Piano for Beginners	5	2
MU2803	Piano Workshop 1	5	2
MU2814	Exploring Music	5	3
MU2816	Musicianship	10	3
MU2829	Creative Music Workshop	5	2

ORAL COMMUNICATION AND DRAMA			
DR2801	Current Theatre	5	2
DR2806	Theatre Games	5	2
DR2807	Workshop Theatre	5	2
DR2814	Communication Through Drama	5	3
DR2816	Play Production	10	5
DR2817	Children's Theatre	10	5
DR2821	Defining Drama	10	3
PERSONAL AND INTERPERSONAL RELATIONSHIPS			
PY2800	Becoming an Effective Person	5	2
PY2801	Interpersonal Problem Solving	5	2
PY2812	Sexuality & Personal Relations	10	3
PY2813	Intimacy & Alienation	10	3
SCIENCE AND TECHNOLOGY			
BI2803	Australian Biology	10	4
SC2816	Discovering Science	5	2
SOCIAL SCIENCE			
GE2021	Living in Cities	10	3
GE2800	Living Better with Less	5	2
GE2801	The Built Environment	5	2
HI2800	The Australian Social Character	5	2
HI2801	Women in History	5	2
PO2800	Contemporary Political Issues	5	2
SS2038	Aboriginal Culture Studies	10	3
SS2046	Aborigines & Torres Strait Islanders	5	2
SS2805	Introduction to the Social Sciences	5	2
VISUAL ARTS			
AR2800	Twentieth Century Arts & Culture	5	2
AR2803	Understanding Art	5	2
CE2800	Elementary Ceramics	5	2
CE2805	Ceramics 2	10	4
DP2800	Painting & Drawing	5	2
DP2808	Drawing	5	4
DS2800	Lettering & Layout	5	2
DS2801	Printmaking 1	5	2
DS2805	Printmaking 2	10	2
FI2802	Video Production & Analysis	10	3
PG2800	Photography as an Art Form	5	2
PG2804	Photography Production & Analysis	5	2
SU2800	Sculpture	5	3
SU2802	Sculpture 2	10	3
TE2800	Fibre Arts	5	2
TE2805	Textiles	10	4
List 145: Early Childhood Electives			
EE2070	Research in Early Childhood Education	10	3
EE2071	Programs for Children Under Three	10	3
EE2074	Special Programs for Young Children	10	3
EE2075	Children's Literature (0-8 Years)	10	3
EE2077	Drama with Special Children*	10	3
EE2078	Special Physical Education	10	3
EE2606	Microcomputers in Early Education*	10	3
EE2607	Media for Early Childhood Teachers*	10	3
EE2609	Teaching English as a Second Language*	10	4

* This subject will not be available in the Conversion/Upgrading Program.

Aboriginal and Torres Strait Islander Program (DTEE)

Program Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 2 (July)			
AR2803	Understanding Art	5	2
DR2814	Communication Through Drama	5	3
EE2064	Introduction to Curriculum 1	5	2
EE2307	Development & Learning: Life Span 1	5	2
MU2814	Exploring Music	5	3
SS2046	Aborigines & Torres Strait Islanders	5	2
Year 2, Semester 1			
ED2345	Education & the Family	10	3
EE2065	Introduction to Curriculum 2	5	2
EE2308	Development & Learning: Life Span 2	5	2
EE2600	Teaching Strategies 1	5	3
MA2809	Foundations of Mathematics	5	3
PE2819	Introduction to Human Movement	5	3
PT2917	Practice Teaching: Early Childhood	5	-
Year 2, Semester 2			
ED2352	Education & Schooling	10	3
EE2054	Curriculum for Early Learning: 0-5 Years	10	3
EE2301	Development & Learning: 0-4 Years	10	3
EE2601	Teaching Strategies 2	5	3
PT2918	Practice Teaching: Pre-school 1	5	-
SC2816	Discovering Science	5	2

In addition to the above, students are required to reach a satisfactory standard in the following subjects prior to entry Year 2, Semester 1 of the regular three-year course.

Year 1, Semester 2 (July)			
EE2106	Study Skills & Communication 1	30	4
Year 2, Semester 1			
EE2107	Study Skills & Communication 2	15	3
Year 2, Semester 2			
EE2108	Study Skills & Communication 3	10	3

Details regarding the final two years are as described in the preceding entry.

Carseldine campus

Course Structures

■ Graduate Diploma of Education – Art Curriculum (GDAC)

Location: Carseldine campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr David Hawke

Entry Requirements

To be eligible for admission, an applicant must:

- (i) hold an approved Diploma of Teaching or equivalent; and
- (ii) have had at least one year's teaching experience; and
- (iii) have successfully completed some studies in art or art education in their pre-service program.

Course Structure	Credit Points	Contact Hrs/Wk
Year 1, Semester 1		
AR4017 Applied Study in Art Education	12	-
Select one from the following:		
DP4002 Painting & Drawing 1	12	3
DS4007 Printmaking 1	12	3
PG4004 Photographic Media 1	12	3
TE4002 Fibre Arts 1	12	3
Year 1, Semester 2		
CU4018 Curriculum Evaluation: Arts Education	12	2
Select one from the following:		
CE4002 Clay Materials 1	12	3
DP4003 Painting & Drawing 2	12	3
DS4008 Printmaking 2	12	3
PG4005 Photographic Media 2	12	3
Year 2, Semester 1		
CU4017 Art Curriculum Foundations	12	2
Select one from the following:		
CE4002 Clay Materials 1	12	3
DP4002 Painting & Drawing 1	12	3
DS4007 Printmaking 1	12	3
TE4002 Fibre Arts 1	12	3
Year 2, Semester 2		
AR4016 Art Education Program Design & Practice	12	3
Select one from the following:		
CE4003 Clay Materials 2	12	3
DP4003 Painting & Drawing 2	12	3
PG4004 Photographic Media 1	12	3
TE4003 Fibre Arts 2	12	3

■ Graduate Diploma of Education – Music Curriculum (GDMC)

Location: Carseldine campus (The first year of this course is also offered at the University's Sunshine Coast centre.)

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Spencer Faulkner

Entry Requirements

To be eligible for admission, an applicant must:

- (i) hold an approved Diploma of Teaching or equivalent; and
- (ii) have had at least one year's teaching experience; and
- (iii) have successfully completed some studies in music or music education in their pre-service program.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CU4020	Curriculum Foundations of Music Education	12	3
MU4033	Twentieth Century Music	12	3
Year 1, Semester 2			
CU4021	Issues in Music Education	12	3
MU4034	Baroque & the Rococo	12	3
Year 2, Semester 1			
CU4022	Applied Studies (Practical)	12	-
MU4035	Classical & Romantic Music	12	3
Year 2, Semester 2			
CU4018	Curriculum Evaluation: Arts Education	12	2
CU4023	Applied Studies (Curriculum)	12	2

■ Graduate Diploma of Education – Primary Teaching (GDTP)

Location: Carseldine campus (The first year of this course is also offered at the University's Sunshine Coast centre.)

Course Duration: 1 year full-time

Total Credit Points: 140

Standard Credit Points/Full-Time Semester: 70

Course Coordinator: Ms Tania Aspland

Entry Requirements

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

- (i) an approved degree or equivalent (no prerequisite studies are required).

Special Course Requirements

Students attend associated schools for the purpose of:

- ☐ Practice Teaching in four-week blocks to conclude each semester;

- School Studies for two days in school during Orientation Week to develop an initial awareness of primary schools. This is followed by one day each week for eight weeks in each semester to carry out child, class and school studies which connect subjects in Studies in Curriculum, Education and Teaching and Learning with the classroom and school situation. Within School Studies there is an enrichment component which provides students with the opportunity to select an area of study within the educational context to enrich their professional development. As well, students are required to demonstrate competencies in first aid and swimming.

Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
AR4007	Understanding the World of the Arts 1	8	2
ED4310	Human Development & Learning	8	3
ED4600	Analysis of Teaching & Learning	8	3
EN4009	Communication: Focus on Literacy	8	2
MA4019	Studies in Mathematics & Technology 1	8	2
PT4900	Practice Teaching 1	12	-
SB4902	School Studies 1	8	5
SS4002	Studies in the Natural & Social World 1	8	3
Semester 2			
AR4008	Understanding the World of the Arts 2	4	2
ED4080	Class Program Development	4	1
ED4311	Contemporary Educational Issues & Practices	8	2
ED4312	Introducing Movement Education	4	1
ED4601	Developing Children's Potential	12	4
ED4602	Contexts for Teaching & Learning	8	2
EN4012	Communication: Focus on Language	4	2
MA4023	Studies in Mathematics & Technology 2	4	2
PT4901	Practice Teaching 2	12	-
SB4903	School Studies 2	8	5
SS4003	Studies in the Natural & Social World 2	4	1

■ Bachelor of Teaching – Primary (BTPR)*

Location: Carseldine campus

Course Duration: 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Bob Elliott

The details of this new course are not available at the time of the production of the Handbook. Information will be available to commencing students with the offer of admission. Other enquiries may be directed to the School of Teacher Education, Carseldine campus.

* Offered subject to final approval.

■ Diploma of Education – Primary (DTPC)

Location: Carseldine campus

Course Duration: 3 years full-time

Total Credit Points: 362

Course Coordinator: Mr Ken Albion

Special Course Requirements

Within this course it is possible to undertake the basic generalist studies which enable graduates to be employed in the primary school system or to undertake a modification of these to major in the areas of Early Education, Music Education and Physical Education. Selected students begin these studies in their second year, having applied midway through Semester 2 of Year 1.

The course consists of six semesters – one half of the students complete the six semesters in the order set down below while the other half complete them in the order 2, 1, 4, 3, 6, 5.

In Year 3 students undertake school/community studies subjects which involve attendance at schools on one day a week during the semester, and for nine weeks in both semesters. The University contact hours are reduced accordingly during these weeks to provide this time for the related child, class and school studies to be undertaken in schools.

These studies are assessed as part of the University subjects.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CO2041	Computing in the Primary School	6	2
ED2334	Understanding Children: Development	10	3
ED2601	Communication Processes in the Classroom	8	3
PE2085	Health & Physical Education	12	5
PT2911	Practice Teaching	10	-
SS2053	Foundations in the Humanities	14	6
Year 1, Semester 2			
AR2040	Art & Music Education	12	6
ED2335	Understanding Children: Learning	10	3
ED2600	Analysis of Teaching & Learning	8	3
LS2800	Studies in Australian Culture	8	3
MA2089	Studies in Mathematics & Science	12	6
PT2912	Practice Teaching	10	-
Year 2, Semester 1			
AR2041	Art Education	6	2
ED2336	Social, School & Political Contexts	10	3
ED2603	Contexts for Teaching & Learning	8	3
HE2015	School Health Education	6	2
HE2900	Community Studies: First Aid	2	1
LA2042	Language Processes & Programs	6	3
PT2913	Practice Teaching	10	-
SS2054	Social Studies Education	6	2
Elective	Select from List 130	8	
Year 2, Semester 2			
ED2337	Cultural, Learning & Future Contexts	10	3
ED2602	Educational Technology & the Classroom	8	3
MA2090	Mathematics Education	6	3

MU2102	Music Education	6	2
PE2086	Physical Education	6	2
PT2914	Practice Teaching	10	-
SC2081	Science Education	6	2
Elective	Select from List 130	8	

Year 3, Semester 1

AR2042	The World of the Arts	8	3
ED2338	Issues of Knowledge, Power & Quality/Equality	10	3
ED2605	Children with Learning Problems	8	3
EN2071	Communication: Focus on Literacy	8	3
MA2091	Mathematics & Technology	8	3
PT2915	Practice Teaching	10	-
Elective	Select from List 130	8	

Year 3, Semester 2

ED2094	Class Program Development	8	3
ED2339	Issues of Values, Competition & Change	10	3
ED2604	Developing Children's Potential	8	3
EN2072	Communication: Focus on Integration	8	3
PT2916	Practice Teaching	10	-
SS2055	The Natural & Social World	8	3
Elective	Select from List 130	8	

Major Studies in Early Education (DPPC)

Course Structure	Credit Points	Contact Hrs/Wk
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Year 1 (Standard Program)

Year 2, Semester 1

AR2041	Art Education	6	2
DA2810	Movement for Young Children	8	3
ED2336	Social, School & Political Contexts	10	3
HE2015	School Health Education	6	2
HE2900	Community Studies: First Aid	2	1
LA2042	Language Processes & Programs	6	3
PT2913	Practice Teaching	10	-
SS2054	Social Studies Education	6	2

Year 2, Semester 2

ED2337	Cultural, Learning & Future Contexts	10	3
ED2602	Educational Technology & the Classroom	8	3
ED2700	Contexts for Teaching & Learning (E.E.)	8	3
ED2706	Early Education: Human Development	4	1
MA2090	Mathematics Education	6	3
MU2102	Music Education	6	2
PE2086	Physical Education	6	2
PT2914	Practice Teaching	10	-
SC2081	Science Education	6	2

Year 3, Semester 1

AR2042	The World of the Arts	8	3
AR2805	Expressive Arts & Early Childhood	8	3
ED2605	Children with Learning Problems	8	3
ED2703	Issues in Education (E.E.)	10	3
ED2707	Administration Process in Early Education	4	1
EN2071	Communication: Focus on Literacy	8	3
MA2091	Mathematics & Technology	8	3
PT2915	Practice Teaching	10	-

Year 3, Semester 2

ED2339	Issues of Values, Competition & Change	10	3
ED2604	Developing Children's Potential	8	3
ED2704	Integrated Curriculum Development (E.E.)	8	3
ED2705	Early Education Classroom Processes	8	3
EN2072	Communication: Focus on Integration	8	3
PT2916	Practice Teaching	10	-
SS2055	The Natural & Social World	8	3

Major Studies in Music Education (DPMC)

Course Structure	Credit Points	Contact Hrs/Wk
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Year 1 (Standard Program)**Year 2, Semester 1**

AR2041	Art Education	6	2
ED2336	Social, School & Political Contexts	10	3
HE2015	School Health Education	6	2
HE2900	Community Studies: First Aid	2	1
LA2042	Language Processes & Programs	6	3
MU2700	Contexts for Teaching & Learning (M.E.)	8	3
MU2703	Vocal Studies	8	3
PT2913	Practice Teaching	10	-
SS2054	Social Studies Education	6	2

Year 2, Semester 2

ED2337	Cultural, Learning & Future Contexts	10	3
ED2602	Educational Technology & the Classroom	8	3
MA2090	Mathematics Education	6	3
MU2102	Music Education	6	2
MU2704	Instrumental Studies	8	3
PE2086	Physical Education	6	2
PT2914	Practice Teaching	10	-
SC2081	Science Education	6	2

Year 3, Semester 1

AR2042	The World of the Arts	8	3
ED2338	Issues of Knowledge, Power & Quality/Equality	10	3
ED2605	Children with Learning Problems	8	3
EN2071	Communication: Focus on Literacy	8	3
MA2091	Mathematics & Technology	8	3
MU2705	Practical Musicianship	8	3
PT2915	Practice Teaching	10	-

Year 3, Semester 2

ED2339	Issues of Values, Competition & Change	10	3
ED2604	Developing Children's Potential	8	3
EN2072	Communication: Focus on Integration	8	3
MU2701	Approaches to Music Education	8	3
MU2702	Class Program Development in Music Education	8	3
PT2916	Practice Teaching	10	-
SS2055	The Natural & Social World	8	3

Major Studies in Physical Education (DPHC)

Course Structure	Credit Points	Contact Hrs/Wk
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Year 1 (Standard Program)

Year 2, Semester 1

AR2041	Art Education	6	2
ED2336	Social, School & Political Contexts	10	3
HE2015	School Health Education	6	2
HE2900	Community Studies: First Aid	2	1
LA2042	Language Processes & Programs	6	3
PE2702	Contexts for Teaching & Learning (P.E.)	8	3
PE2712	Teaching Games & Sport	8	3
PT2913	Practice Teaching	10	-
SS2054	Social Studies Education	6	2

Year 2, Semester 2

ED2337	Cultural, Learning & Future Contexts	10	3
ED2602	Educational Technology & the Classroom	8	3
MA2090	Mathematics Education	6	3
MU2102	Music Education	6	2
PE2086	Physical Education	6	2
PT2914	Practice Teaching	10	-
SC2081	Science Education	6	2
Elective	Select from List 130 (Level I subject)	8	

Year 3, Semester 1

ED2338	Issues of Knowledge, Power & Quality/Equality	10	3
ED2605	Children with Learning Problems	8	3
EN2071	Communication: Focus on Literacy	8	3
MA2091	Mathematics & Technology	8	3
PE2706	Physical Education & the Arts	8	3
PT2915	Practice Teaching	10	-
Elective	Select from List 130 (Level II subject)	8	-

Year 3, Semester 2

ED2339	Issues of Values, Competition & Change	10	3
ED2604	Developing Children's Potential	8	3
EN2072	Communication: Focus on Integration	8	3
PE2705	Total Programming in Physical Education	8	3
PE2713	Resource Teaching & Consultancy	8	3
PT2916	Practice Teaching	10	-
SS2055	The Natural & Social World	8	3

List 130: Liberal Studies Electives

Core Subject (compulsory)

LS2800	Studies in Australian Culture	8	3
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Students to select four subjects, at least one from two of the three categories:

- ☐ Creative Arts
- ☐ Mathematics & Sciences
- ☐ Humanities

with one to a second level, and no more than three subjects from any one teaching department.

CREATIVE ARTS: LEVEL 1

CE2801	Clay Studies 1	8	3
DA2801	Historical & Ethnic Dance	8	3
DA2810	Movement for Young Children	8	3
DP2809	Drawing, Painting & Printmaking 1	8	3
DR2808	Drama Process & Theatre	8	3
MU2809	Vocal Studies 1	8	3
MU2827	Instrumental Music 1	8	3
PG2802	Photography 1	8	3
TE2801	Textile Studies 1	8	3

CREATIVE ARTS: LEVEL 2

AR2805	Expressive Arts & Early Childhood	8	3
CE2802	Clay Studies 2	8	3
DA2802	Creative Dance	8	3
DP2810	Drawing, Painting & Printmaking 2	8	3
DR2809	Drama Process & Children's Theatre	8	3
LI2812	Writing	8	3
MU2828	Instrumental Music 2	8	3
MU2824	Vocal Studies 2	8	3
PG2803	Photography 2	8	3
TE2802	Textile Studies 2	8	3

HUMANITIES: LEVEL 1

EN2801	Interpersonal Communication	8	3
HE2801	Personal Health	8	3
HE2802	Child Health	8	3
LA2810	L.O.T.E. (Indonesian/Japanese/German) 1	8	3
LI2808	Literature & Drama 1	8	3
LI2810	Literature & Writing	8	3
PE2807	Socio-cultural Studies of Sport	8	3
PY2808	Interpersonal Psychology	8	3
PY2811	Personal Development in Creativity	8	3
SS2809	Cultural & Regional Studies 1	8	3

HUMANITIES: LEVEL 2

EN2802	Communication in Groups	8	3
GE2805	Themes in Human Geography	8	3
HE2800	Health Issues in Australian Society	8	3
LA2811	L.O.T.E. (Indonesian/Japanese/German) 2	8	3
LI2809	Literature & Drama 2	8	3
LI2811	Literature	8	3
PE2808	Sport in Society	8	3
SS2810	Cultural & Regional Studies 2	8	3

MATHEMATICS/COMPUTING/SCIENCE: LEVEL 1

CO2807	Computer Studies 1	8	3
MA2803	Excursions in Number	8	3
MA2815	Mathematical Foundations	8	3
MA2817	Thinking Mathematically	8	3
PE2809	Aquatic Recreation	8	3
PE2810	Introductory Sports Science	8	3
PE2811	Measurement of Physical Growth	8	3
SC2807	Australian Flora & Fauna	8	3
SC2808	Botany of Australian Plants	8	3
SC2809	Zoology of Small Domestic Animals in Australia	8	3

MATHEMATICS/COMPUTING/SCIENCE: LEVEL 2

CO2808	Computer Studies 2	8	3
MA2816	Building Mathematical Models	8	3
PE2812	Advanced Sports Science	8	3
SC2810	The Science of Change	8	3
SC2811	Earth & Space	8	3

FACULTY OF HEALTH

FACULTY OF HEALTH

Gardens Point campus

Course Structures

■ Master of Health Science – Nursing (HSN257)

Location: Gardens Point campus

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

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Karen Stolz

Entry Requirements

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 Coordinator to establish suitability for entrance into the course.

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.

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.

Students must select one area of clinical specialisation and one area of advanced nursing practice and complete the three subjects in each area of study.

Clinical specialisation areas offered in 1991 : Medical/Surgical Nursing, Primary Health Care Nursing, Psychiatric/Mental Health Nursing,* Midwifery,* Child and Adolescent Nursing* and Gerontological Nursing*.

Advanced Nursing areas offered in 1991 : Management, Education and Clinical.

Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
Year 1, Semester 1		
MNN601 Contemporary Health Care Issues	12	3

* Subject to approval.

MSN150	Epidemiology & Research Strategies	12	3
MNN602	Health Planning, Management & Evaluation	12	3
NSN401	Strategies for Nursing Research*	6	1.5

Year 1, Semester 2

NSN105	Medical/Surgical Nursing I	}	select one	12	3
NSN108	Primary Health Care Nursing I				
NSN111	Psychiatric/Mental Health Nursing I				
NSN401	Strategies for Nursing Research*			6	1.5
NSN114	Midwifery I	}	select one	12	3
NSN117	Gerontological Nursing I				
NSN120	Child & Adolescent Nursing I				
NSN106	Medical/Surgical Nursing II				
NSN109	Primary Health Care Nursing II				
NSN112	Psychiatric/Mental Health Nursing II				
NSN115	Midwifery II	}	select one	12	3
NSN118	Gerontological Nursing II				
NSN121	Child & Adolescent Nursing II				
NSN107	Medical/Surgical Nursing III	}	select one	12	3
NSN110	Primary Health Care Nursing III				
NSN113	Psychiatric/Mental Health Nursing III				
NSN116	Midwifery III	}	select one	12	3
NSN119	Gerontological Nursing III				
NSN122	Child & Adolescent Nursing III				
NSN301	Advanced Nursing Education I	}	select one	12	3
NSN304	Advanced Nursing Management I				
NSN307	Advanced Nursing Clinical I				

Year 2, Semester 1

NSN302	Advanced Nursing Education II	}	select one	12	3
NSN305	Advanced Nursing Management II				
NSN308	Advanced Nursing Clinical II				
NSN303	Advanced Nursing Education III	}	select one	12	3
ACN813	Accounting Principles (Management III)				
NSN309	Advanced Nursing Clinical III				
NSN403	Dissertation I			12	3
NSN404	Dissertation II			12	3

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MNN601	Contemporary Health Care Issues	12	3
NSN401	Strategies for Nursing Research*	6	1.5

Year 1, Semester 2

NSN105	Medical/Surgical Nursing I	}	select one	12	3
NSN108	Primary Health Care Nursing I				
NSN111	Psychiatric/Mental Health Nursing I				
NSN401	Strategies for Nursing Research*			6	1.5

* Subject extends over two semesters.

NSN114	Midwifery I	}	select one	12	3
NSN117	Gerontological Nursing I				
NSN120	Child & Adolescent Nursing I				
NSN106	Medical/Surgical Nursing II				
NSN109	Primary Health Care Nursing II				
NSN112	Psychiatric/Mental Health Nursing II				
NSN115	Midwifery II	}			
NSN118	Gerontological Nursing II				
NSN121	Child & Adolescent Nursing II				

Year 2, Semester 1

MSN150	Epidemiology & Research Strategies	12	3
MNN602	Health Planning, Management & Evaluation	12	3

Year 2, Semester 2

NSN107	Medical/Surgical Nursing III	}	select one	12	3
NSN110	Primary Health Care Nursing III				
NSN113	Psychiatric/Mental Health Nursing III				
NSN116	Midwifery III				
NSN119	Gerontological Nursing III	}			
NSN122	Child & Adolescent Nursing III				
NSN301	Advanced Nursing Education I				
NSN304	Advanced Nursing Management I	}	select one	12	3
NSN307	Advanced Nursing Clinical I				

Year 3, Semester 1

NSN302	Advanced Nursing Education II	}	select one	12	3
NSN305	Advanced Nursing Management II				
NSN308	Advanced Nursing Clinical II				
NSN403	Dissertation I			12	3

Year 3, Semester 2

NSN303	Advanced Nursing Education III	}	select one	12	3
ACN813	Accounting Principles (Management III)				
NSN309	Advanced Nursing Clinical III				
NSN404	Dissertation II			12	3

■ Master of Public Health (MNN252)

QUT, Griffith University and the University of Queensland offer a joint Master of Public Health (MPH) degree, bringing together interdisciplinary knowledge and skills in public health across the three universities. Students enrol in and graduate from the university in which they undertake their specialist electives and which supervises their dissertation.

Location: Gardens Point campus

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

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Jennifer Mitchell

Entry Requirements

The entry requirements for the MPH are identical for the three collaborating institutions, and are as follows:

- (1) A person may first enrol as a candidate for the degree only if that person:
 - a) holds a bachelors degree from the university or a similar qualification from an approved institution in the health, behavioural, social or biological sciences
 - (i) with first or second class honours;
 - (ii) which required study for at least four years; or
 - (iii) which required study for at least three years, if:
 - (A) a postgraduate diploma from the university or an approved institution is also held; or
 - (B) the research publications and written reports of that person satisfy the Faculty Board that the applicant should be accepted as a candidate; and
 - b) has, since obtaining the qualifications required, had training or experience in a relevant field for a period of at least:
 - (i) three years, where the applicant seeks entry through paragraph (a) (iii) (B); or
 - (ii) two years, otherwise.
- (2) The Dean may allow a person to be admitted as a candidate, if of the opinion:
 - (a) that a person has obtained a basic professional qualification in the health, behavioural, social or biological sciences in that person's home country;
 - (b) that person has subsequently had at least four years of relevant professional experience, which may include a post-basic diploma or other relevant training; and
 - (c) the qualifications and experience referred to above warrant admission.
- (3) Notwithstanding subrules (1) and (2), a person may not be admitted without first satisfying the Dean, if necessary by passing an examination, that the person has both the level of scientific understanding and the level of proficiency in the English language to undertake the course successfully.
- (4) For the purposes of subrule (1) an approved institution is one which, in the opinion of the Faculty Board, maintains standards comparable to those of the university.

Application for Admission

Students enrol at the university in which they expect to undertake their specialist elective subjects and in which their dissertation will be supervised. Because this choice must be made before enrolment, a person seeking entry to the degree of Master of Public Health must, prior to application for admission, consult the Dean and if necessary, the head of any department concerned as to eligibility and the work to be carried out.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MNN606	Social & Behavioural Sciences in Public Health*	12	3
MNN603	Environmental & Occupational Health*	12	3
MNN604	Principles of Epidemiology+	12	3
MNN605	Statistical Methods & Computing+	12	3

* Subject offered by Griffith University.

+ Subject offered by University of Queensland.

Year 1, Semester 2

MNN602	Health Planning, Management & Evaluation	12	3
	Elective	12	3
	Elective	12	3
	Elective	12	3

Year 2, Semester 1

MNN607	Dissertation	48	
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Part-Time Course Structure

Credit Points **Contact Hrs/Wk**

Year 1, Semester 1

MNN606	Social & Behavioural Sciences in Public Health*	12	3
MNN603	Environmental & Occupational Health*	12	3

Year 1, Semester 2

MNN602	Health Planning, Management & Evaluation	12	3
	Elective	12	3

Year 2, Semester 1

MNN604	Principles of Epidemiology+	12	3
MNN605	Statistical Methods & Computing+	12	3

Year 2, Semester 2

	Elective	12	3
	Elective	12	3

Year 3, Semester 1

MNN607	Dissertation	24	
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Year 3, Semester 2

MNN607	Dissertation	24	
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The electives will provide the student with specialist studies building on one of the areas from the core and leading into the dissertation. Subjects available as MPH electives in the School of Management are:

MNN601	Contemporary Health Care Issues
MNN608	Economics & Health
MNN609	Health Care Finance
MNN610	Health Services Management
MNN611	Advanced Health Planning
MNN612	Advanced Health Evaluation

Students may also choose electives from subjects offered in the Master of Health Science at QUT. All programs of study must be approved by the Dean of the relevant Faculty and the Director of the MPH.

■ Graduate Diploma in Advanced Nursing Practice (NSM253)

Location: Gardens Point campus

Course Duration: 2 years part-time

Total Credit Points: 96

* Subject offered by Griffith University.

+ Subject offered by University of Queensland.

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: 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 subjects to be determined at the discretion of the Head of School. The subjects 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 1991: Medical/Surgical Nursing, Primary Health Care Nursing and Psychiatric/Mental Health Nursing.

Students are required to undertake elective studies. All options may not be available in 1991.

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MNN601	Contemporary Health Care Issues	12	3
NSN102	Concepts for Advanced Clinical Nursing	12	3
Year 1, Semester 2			
NSN104	Professional Issues in Nursing	12	3
NSN105	Medical/Surgical Nursing I	12	3
	OR		
NSN108	Primary Health Care Nursing I	12	3
	OR		
NSN111	Psychiatric/Mental Health Nursing I	12	3
Year 2, Semester 1			
NSN103	Research Methods in Nursing	12	3
NSN106	Medical/Surgical Nursing II	12	3
	OR		
NSN109	Primary Health Care Nursing II	12	3
	OR		
NSN112	Psychiatric/Mental Health Nursing II	12	3
Year 2, Semester 2			
NSN107	Medical/Surgical Nursing III	12	3
	OR		
NSN110	Primary Health Care Nursing III	12	3

NSN113	OR		
	Psychiatric/Mental Health Nursing III	12	3
	Elective(s)	12	3

Electives

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

NSN201	Grief & Bereavement	6	1.5
NSN202	Nursing & Health Education Practice	6	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

■ Graduate Diploma in Nutrition and Dietetics (PNM175)

Location: Gardens Point campus

Course Duration: 1.5 years full-time

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mrs Sandra Capra

Professional Recognition

Graduates are eligible for membership of the Dietitians Association of Australia. This is the only recognised course for dietitians in Queensland.

Entry Requirements

NORMAL ENTRY

To be eligible for registration in the course the applicant must have completed an acceptable degree which includes systematic physiology and metabolic biochemistry, both of which have been studied successfully at second 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 when lodging the application for admission.

Special Course Requirements

In Year 1, 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 subjects of the first and second semesters.

Field trips as detailed in Subject Synopses have an attendance requirement and shall be assessed.

Full-Time Course Structure

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

■ Graduate Diploma in Occupational Health and Safety (PNM240)

Location: Gardens Point campus

Course Duration: 2 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Bruce Fleming

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
Year1, Semester 1			
PNP115	Occupational Health & Safety Administration I	12	3
PNP116	Human Factors	12	3
Year 1, Semester 2			
PNP215	Occupational Health & Safety Administration II	12	3
MEP201	Safety Technology & Practice I	12	3
Year 2, Semester 1			
MEP301	Safety Technology & Practice II	12	3
PHP250	Occupational Hygiene	12	3
Year 2, Semester 2			
PNP415	Occupational Health	12	3
PNP416	Occupational Health & Safety Project	12	

■ Bachelor of Applied Science – Environmental Health (PNJ229)

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 290

Standard Credit Points/Full-Time Semester: 48.33

Course Coordinator: Mr Bruce Fleming

Professional Recognition

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.

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.

For students commencing the course prior to 1991

Full-Time Course Structure (Semesters 1 and 2 no longer offered)		Credit Points	Contact Hrs/Wk
Semester 3			
PNB203	Environmental Health III	14	7
PNB231	Anatomy & Physiology I	8	4
MSB301	Microbiology I	6	3
BGB151	Construction I	12	6
SVB101	Surveying & Measuring	4	2
LWS003	Law & Environmental Health	4	3
Semester 4			
PNB204	Environmental Health IV	18	9
MSB402	Microbiology II	6	3
PNB232	Anatomy & Physiology II	8	4
BGB153	Construction II	6	4
BGB243	Law I - Building Acts & Regulations	5	2
BGB345	Hygiene & Sanitation	6	3
Semester 5			
PNB205	Environmental Health V	30	16
PNB210	Occupational Health & Safety I	6	3
CMB300	Sociology for Health Professionals	6	3
LPS102	Introduction to Town Planning	2	2
BGB013	Building Services I - HVAC	4	2
Semester 6			
PNB206	Environmental Health VI	30	16
PNB211	Occupational Health & Safety II	8	4
CMB400	Sociology of Health & Illness	6	3
MNB267	Psychology	4	3
Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CHB142	Chemistry I	12	6
PHB150	Physics IH	12	6
MAB150	Quantitative Techniques	6	2
CSB259	Laboratory Computing I	6	2
BEB103	Biology IA	8	3
BEB104	Biology IB	6	3
Year 1, Semester 2			
PNB207	Introduction to Environmental Health	10	4
CHB242	Chemistry II	12	6
MAB252	Statistics	4	2
PHB250	Physics IIH	10	4
CMB106	Professional Communication	6	3
MNB067	Psychology	6	3
Year 2, Semester 1			
PNB231	Anatomy & Physiology I	8	4
MSB301	Microbiology I	6	3
BGB151	Construction I	12	6
PNB300	Pollution Science I	8	4

BGB173	Material Science I	4	2
BGB175	Structures I	4	2
PNB318	Food Studies I	6	3

Year 2, Semester 2

PNB481	Pollution Science II	8	4
PNB210	Occupational Health & Safety I	6	3
MSB402	Microbiology II	6	3
PNB232	Anatomy & Physiology II	8	4
BGB172	Construction II	6	4
BGB174	Material Science II	4	2
BGB176	Structures II	4	2
PNB418	Food Studies II	6	3
PNB520	Environmental Health Management I	12	5

Year 3, Semester 1

PNB211	Occupational Health & Safety II	8	4
PNB513	Epidemiology	6	3
LPS102	Introduction to Town Planning	2	2
BGB013	Building Services I - HVAC	4	2
PNB514	Principles of Toxicology	6	3
PNB518	Food Studies III	6	3
SVB101	Surveying & Measuring	4	2

Year 3, Semester 2

PNB612	Health Promotion & Education	6	3
PNB620	Environmental Health Management II	12	6
PNB621	Professional Practice	12	6
BGB243	Law I - Building Acts & Regulations	4	2
BGB345	Hygiene & Sanitation	6	3
PNB622	Project	8	4

■ Bachelor of Applied Science – Nursing (NSJ231)

Location: Gardens Point campus

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Karen Stolz

Professional Recognition

This course is recognised by the College of Nursing Australia as satisfying the academic requirements for admission as a professional member.

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 (NTE) of 810 and a minimum grade of 4 points or sound achievement in English. Such applicants should refer to Table 1, page 104 of this Handbook to determine their NTE.
- (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.

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 will be necessary for those applicants from post-basic courses who have not undertaken studies in 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 Year 2, Semester 1.

Students who enter the part-time course with Advanced Standing commence their program at Year 3, Semester 1.

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
Year 1, Semester 1			
MNB250	Developmental Psychology	9	3
CMB300	Sociology for Health Professionals	6	3

PNB115	Human Physiology I	12	3
NSB120	Nursing in Social Systems I	9	3
NSB110	Foundations of Nursing Practice I	12	4

Year 1, Semester 2

PNB116	Human Physiology II	6	2
NSB130	Professional Aspects of Nursing I	12	4
NSB111	Foundations of Nursing Practice II	18	7
MSB150	Microbiology	6	2
AFTER SEMESTER			
NSB112	Clinical Practice I	6	1wk (40hrs)

Year 2, Semester 1

NSB220	Nursing in Social Systems II	9	3
NSB210	Theories of Nursing I	9	3
NSB240	Nursing Practice I	18	8
	Elective		
	OR		
NSB250	Psychosocial Adaption	6	2
NSB252	Pathophysiology	6	2
AFTER SEMESTER			
NSB212	Clinical Practice II	6	1wk (40hrs)

Year 2, Semester 2

ISB263	Introduction to Computers & Information Systems	6	2
MAB156	Statistics	6	2
NSB230	Professional Aspects of Nursing II	12	4
NSB211	Theories of Nursing II	9	3
NSB241	Nursing Practice II	15	6

Part-Time Course Structure

Credit Points **Contact Hrs/Wk**

Year 1, Semester 1

MNB250	Developmental Psychology	9	3
PNB115	Human Physiology I	12	3
NSB120	Nursing in Social Systems I	9	3

Year 1, Semester 2

NSB130	Professional Aspects of Nursing I	12	4
PNB116	Human Physiology II	6	2
MSB150	Microbiology	6	2

Year 2, Semester 1

CMB300	Sociology for Health Professionals	6	3
NSB110	Foundations of Nursing Practice I	12	4

Year 2, Semester 2

NSB111	Foundations of Nursing Practice II	18	7
AFTER SEMESTER			
NSB112	Clinical Practice I	6	1wk (40hrs)

Year 3, Semester 1

NSB220	Nursing in Social Systems II	9	3
NSB210	Theories of Nursing I	9	3
	Elective		
NSB250	Psychosocial Adaption	6	2
	OR		
NSB252	Pathophysiology	6	2

Year 3, Semester 2

NSB230	Professional Aspects of Nursing II	12	4
ISB263	Introduction to Computers & Information Systems	6	2
MAB156	Statistics	6	2

Year 4, Semester 1

NSB240	Nursing Practice I	18	8
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AFTER SEMESTER

NSB212	Clinical Practice II	6	1wk (40hrs)
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Year 4, Semester 2

NSB211	Theories of Nursing II	9	3
NSB241	Nursing Practice II	15	6

Bachelor of Applied Science – Occupational Health and Safety (PNJ272)

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 278

Standard Credit Points/Full-Time Semester: 46.3

Course Coordinator: Mr Bruce Fleming

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CHB142	Chemistry I	12	6
PHB150	Physics IH	12	6
MAB150	Quantitative Techniques	6	2
CSB259	Laboratory Computing I	6	2
MNB254	Personnel Management & Industrial Relations	12	3
Year 1, Semester 2			
PNB210	Occupational Health & Safety I	6	3
CHB242	Chemistry II	12	6
MAB252	Statistics	4	2
PHB250	Physics IIH	10	4
CMB104	Professional Communication	6	3
MNB067	Psychology	6	3
Year 2, Semester 1			
PNB211	Occupational Health & Safety II	8	4
PNB231	Anatomy & Physiology I	8	4
MSB301	Microbiology I	6	3
PNB300	Pollution Science I	8	4
MEB035	Safety Technology I	10	4
CHB382	Chemistry III	4	2
Year 2, Semester 2			
PNB485	Occupational Hygiene I	10	4
MSB402	Microbiology II	6	3
PNB232	Anatomy & Physiology II	8	4
PHB404	Safety Technology II	8	4

PNB482	Occupational Health	10	4
PNB483	Human Factors I	6	3

Year 3, Semester 1

PNB511	Hazard Assessment & Management I	8	3
PNB512	Human Factors II	4	2
PNB513	Epidemiology	6	3
BGB013	Building Services I - HVAC	4	2
PNB585	Occupational Hygiene II	10	4
PNB516	Professional Practice I	12	6
PNB517	Project I	4	2

Year 3, Semester 2

PNB612	Health Promotion & Education	6	3
PNB611	Hazard Assessment & Management II	6	3
PNB613	Professional Practice II	12	6
PNB614	Industry Specialisations	12	6
PNB617	Project II	10	4

■ Bachelor of Applied Science – Optometry (OPJ202)

Location: Gardens Point campus

Course Duration: 4 years full-time

Total Credit Points: 384

Standard Credit Points/Full-time Semester: 48

Course Coordinator: Mr Peter Swann

Professional Recognition

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.

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
Year 1, Semester 1			
CHB142	Chemistry I	12	6
BEB150	Biology	8	3

PNB163	Human Anatomy I	8	3
MAB251	Mathematics I	8	4
PHB150	Physics IH	12	6

Year 1, Semester 2

CHB242	Chemistry II	12	6
PHB240	Optics II	14	7
OPB132	Ophthalmic Optics II	12	4
PHB250	Physics IIH	10	4

Year 2, Semester 1

PNB363	Human Anatomy III	10	5
MSB471	Biochemistry IV	8	4
PHB340	Optics III	12	7
OPB312	Visual Science III	14	5
ISB385	Microcomputer Software Applications	4	2

Year 2, Semester 2

MSB450	Microbiology III	6	3
PNB435	Human Physiology	12	7
MAB252	Statistics	4	2
MSB430	Disease Processes IV	4	2
OPB401	Ocular & Regional Anatomy	8	3
OPB412	Visual Science IV	14	5

Year 3, Semester 1

OPB508	Ocular Physiology	8	4
OPB509	Optometry V	18	9
OPB504	Ophthalmic Optics V	6	4
OPB505	Clinical Optometry V	8	4
OPB527	Diseases of the Eye V	8	3

Year 3, Semester 2

OPB608	Ocular Pharmacology	6	3
OPB609	Optometry VI	16	8
MNB130	General Psychology	4	3
OPB605	Clinical Optometry VI	8	4
OPB627	Diseases of the Eye VI	8	4
OPB617	Contact Lens Studies VI	6	2

Year 4, Semester 1

OPB709	Optometry VII	10	5
OPB705	Clinical Optometry VII	24	13
OPB717	Contact Lens Studies VII	6	2
MAB258	Experimental Design	4	2
OPB750	Project	4	2

Year 4, Semester 2

OPB803	Occupational/Public Health Optometry	6	2
MNB072	Practice Management	4	2
OPB805	Clinical Optometry VIII	32	17
OPB750	Project	6	4

■ Bachelor of Applied Science – Podiatry (PNJ270)

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 292

Standard Credit Points/Full-Time Semester: 48.67

Course Coordinator: Mr Alan Crawford

Professional Recognition

Graduates 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.

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
Year 1, Semester 1			
CHB142	Chemistry I	12	6
PHB150	Physics I/H	12	6
MAB150	Quantitative Techniques	6	2
PNB163	Human Anatomy I	8	3
ISB385	Microcomputer Software Applications	4	2
MEB031	Material Technology	8	2
Year 1, Semester 2			
CHB242	Chemistry II	12	6
PHB250	Physics I/H	10	4
PNB220	Systematic Anatomy	10	3
PHB252	Kinesiology & Biomechanics	6	2
MAB252	Statistics	4	2
MNB067	Psychology	6	3
Year 2, Semester 1			
PNB301	Advanced Anatomy	8	3
PNB302	Podiatric Medicine I	10	5
PNB303	Clinical Podiatry I	8	5
PNB420	Orthotic Science I	6	3
MSB471	Biochemistry IV	8	4
PNB306	Pharmacology	8	3
Year 2, Semester 2			
PNB435	Human Physiology	12	7
PNB412	Clinical Podiatry II	8	6
PNB421	Podiatric Medicine II	12	4
PNB506	Orthotic Science II	8	3
MSB201	Microbiology	6	3
MSB430	Disease Processes IV	4	2
Year 3, Semester 1			
PHB313	Radiographic Image Interpretation	6	3
PNB503	Podiatric Medicine III	10	3
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

Year 3, Semester 2

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

■ Bachelor of Business – Health Administration (MNJ179)

Location: Gardens Point campus

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

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Professional Recognition

Students who complete the Bachelor of Business – Health Administration degree are eligible for membership of the Australian College of Health Service Executives.

Students who complete the Health Information Management Major are eligible for membership of the Medical Record Association of Australia.

Please note that a student guide containing general information about the School of Management, its courses and rules is available from the School office.

HEALTH ADMINISTRATION MAJOR

Part-Time Course Structure (for internal and external students)	Credit Points	Contact Hrs/Wk
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Year 1, Semester 1

MNB330	Australian Health Industry	12	3
MNB154	Psychology	12	3

Year 1, Semester 2

MNB254	Personnel Management & Industrial Relations	12	3
MNB251	Macroeconomic Analysis	12	3

Year 2, Semester 1

ACB383	Accountancy for Administrators OR	12	3
ACB110	Accounting I	12	4
MNB153	Analysis & Methodology in Management	12	3

Year 2, Semester 2

ACB140	Business Law	12	4
MNB151	Microeconomic Analysis	12	3

Year 3, Semester 1

MNB331	Health Care Economics I	12	3
ISB392	Business Computing	12	4

Year 3, Semester 2

MNB471	Microeconomic Policy	12	3
MNB618	Health Computer Systems	12	4

Year 4, Semester 1

MNB382	Administration Research I	12	3
LWS001	Medicine & the Law	12	3

Year 4, Semester 2

MNB430	Applied Health Care Analysis	12	3
ACB280	Health Administration Finance	12	3

Year 5, Semester 1

MNB351	Organisational Analysis & Management Elective	12	3
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Year 5, Semester 2

MNB231	Government Economic Policy Elective	12	3
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Year 6, Semester 1

MNB505	Health Management I	12	3
MNB543	Health Services Planning	12	3

Year 6, Semester 2

MNB605	Health Management II	12	3
MNB534	Health Services Evaluation	12	3

HEALTH INFORMATION MANAGEMENT MAJOR***Full-Time Course Structure**

Credit Points **Contact Hrs/Wk**

Year 1, Semester 1

MNB330	Australian Health Industry	12	3
PNB261	Anatomy & Physiology I	12	4
MNB154	Psychology	12	3
MNB153	Analysis & Methodology in Management	12	3

Year 1, Semester 2

MNB319	Health Information Management I	12	3
PNB262	Anatomy & Physiology II	12	4
MNB320	Medical Terminology	12	3
MNB254	Personnel Management & Industrial Relations	12	3

Year 2, Semester 1

LWS001	Medicine & the Law	12	3
MNB382	Administration Research I	12	3
MSB761	Fundamentals of Medicine I	12	3
MNB419	Health Information Management II	12	3

Year 2, Semester 2

MNB430	Applied Health Care Analysis	12	3
MNB151	Microeconomic Analysis OR Elective	12	3
MSB762	Fundamentals of Medicine II	12	3
MNB519	Health Information Management III	12	3

* *Note: Students in the Health Information Management Major are required to study:*

*MNB151 Microeconomic Analysis AND
MNB331 Health Care Economics I OR
ACB383 Accountancy for Administrators AND
ACB280 Health Administration Finance*

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

Year 3, Semester 1

MNB543	Health Services Planning	12	3
MNB331	Health Care Economics I OR	12	3
ACB383	Accountancy for Administrators	12	3
ISB392	Business Computing Elective	12	4

Year 3, Semester 2

ACB280	Health Administration Finance OR Elective	12	3
MNB619	Health Information Management IV	12	3
MNB618	Health Computer Systems	12	4
MNB534	Health Services Evaluation	12	3

Part-Time Course Structure

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

Year 1, Semester 1

MNB330	Australian Health Industry	12	3
MNB154	Psychology	12	3

Year 1, Semester 2

MNB319	Health Information Management I	12	3
MNB254	Personnel Management & Industrial Relations	12	3

Year 2, Semester 1

PNB261	Anatomy & Physiology I	12	4
MNB153	Analysis & Methodology in Management	12	3

Year 2, Semester 2

PNB262	Anatomy & Physiology II	12	4
MNB320	Medical Terminology	12	3

Year 3, Semester 1

MNB382	Administration Research I	12	3
MSB761	Fundamentals of Medicine I	12	3

Year 3, Semester 2

MNB430	Applied Health Care Analysis	12	3
MSB762	Fundamentals of Medicine II	12	3

Year 4, Semester 1

MNB543	Health Services Planning	12	3
MNB419	Health Information Management II	12	3

Year 4, Semester 2

MNB519	Health Information Management III	12	3
MNB534	Health Services Evaluation	12	3

Year 5, Semester 1

ACB383	Accountancy for Administrators OR Elective	12	3
ISB392	Business Computing	12	4

Year 5, Semester 2

MNB151	Microeconomic Analysis	12	3
	OR		
ACB280	Health Administration Finance Elective	12	3

Year 6, Semester 1

MNB331	Health Care Economics I	12	3
	OR		
	Elective		
LWS001	Medicine & the Law	12	3

Year 6, Semester 2

MNB619	Health Information Management IV	12	3
MNB618	Health Computer Systems	12	4

Health Administration and Health Information Management 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 (First Semester)
MNB431	Health Care Economics II (Second Semester)
MNB518	Health Administration Project (First and Second Semesters)

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 University College of Southern Queensland. (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 University College of Southern Queensland 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 University College of Southern Queensland (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 2111.

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 cooperation 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: (07) 223 2111.

ADMINISTRATIVE ENQUIRIES

All administration enquiries should be addressed to the Registrar at QUT, whether such enquiries relate to QUT, University College of Southern Queensland 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	UCSQ Subject CodeTCCode	QUT Subject	Subject
1	- 90501	MNB330 EXL009	Australian Health Industry Communications
2	75002 51379	EXL027 EXL046	Data Analysis Introduction to Human Resource Management
3	75001 51008	EXL023 EXL008	Introduction to Computing Business Economics
4	- 51331	MNB618 EXL052	Health Computer Systems Microeconomics
5	51004 -	EXL011 MNB331	Management & Organisational Behaviour Health Care Economics I
6	- 51005	MNB471 EXL025	Microeconomic 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

■ Diploma of Applied Science – Nursing (NSK208)

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Joan Penridge

Professional Recognition

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.

Special Course Requirements

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

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

Year 3, Semesters 1 and 2 – 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 = 160

Total = 220

Full-Time Course Structure

**Credit
Points**

**Contact
Hrs/Wk**

Year 1, Semester 1

NSD120	Perspectives for Nursing Practice I	3	2
NSD121	Concepts for Nursing Practice I	6	3
NSD122	Clinical Practice IA	9	8
PND131	Anatomy	9	4
MND011	Psychology I	6	3
CHD148	Chemistry	6	3

AFTER SEMESTER

NSD123	Clinical Practice IB	9	3wks (40hrs)
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Year 1, Semester 2

NSD220	Perspectives for Nursing Practice II	6	2
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	2
CMD100	Sociology	6	3

AFTER SEMESTER

NSD223	Clinical Practice IIB	9	3wks (40hrs)
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Year 2, Semester 1

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 SEMESTER

NSD323	Clinical Practice IIIB	9	3wks (40hrs)
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Year 2, Semester 2

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
CMB106	Professional Communication	6	3
CMD200	Sociology of Health & Illness	6	3

AFTER SEMESTER

NSD423	Clinical Practice IVB	9	3wks (40hrs)
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Year 3, Semester 1

NSD520	Perspectives for Nursing Practice V	6	3
NSD521	Concepts for Nursing Practice V	6	4
NSD522	Clinical Practice VA	9	15
PND540	Clinical Physiology II	6	3
MND055	Psychology III	6	3
MSD680	Epidemiology	6	3
AFTER SEMESTER			
NSD523	Clinical Practice VB	9	3wks (40hrs)

Year 3, Semester 2

NSD620	Perspectives for Nursing Practice VI	6	3
NSD621	Concepts for Nursing Practice VI	6	4
NSD622	Clinical Practice VIA	9	15
MSD460	Microbiology II	6	3
PND640	Clinical Physiology III	6	3
MND066	Psychology IV	6	3
AFTER SEMESTER			
NSD623	Clinical Practice VIB	9	3wks (40hrs)

■ Diploma of Applied Science – Podiatry (PNK172)

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Alan Crawford

This course is being phased out. Years 1 and 2 will not be offered in 1991.

Professional Recognition

Graduates 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.

Full-Time Course Structure

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 3, Semester 1			
PND752	Clinical Biomechanics	6	3
PND701	Dermatology	4	2
MND501	Psychology	6	3
PND731	Podiatry V	26	13
PND461	Special Procedures Clinic	6	2
Year 3, Semester 2			
PND761	Sports Medicine	6	3
MNB072	Practice Management	4	2
PND732	Podiatry VI	26	13
PND742	Orthotics VI	6	3
PND770	Project	6	2

Kelvin Grove campus

Course Structures

■ Bachelor of Applied Science – Home Economics (BASH)

Location: Kelvin Grove campus

Course Duration: 3 years full-time

Total Credit Points: 320

Course Coordinator: Mr Claus Jehne

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
BI3025	Biological Science	10	4
CH3020	Principles of Chemistry	10	4
DS3025	Design Studies	10	4
EC3025	Economics	10	4
SS3025	Contemporary Social Science	10	3
Year 1, Semester 2			
CH3025	Organic Chemistry	10	4
EN3025	Communication	10	3
MG3025	Introduction to Management	10	3
PH3025	Introduction to Physics	10	4
SY3025	Sociology of the Family	10	3
Year 1, Summer School			
HS3025	Practicum 1	10	-
Year 2, Semester 1			
BC3025	Biochemistry	10	5
MB3025	Microbiology	10	5
HO3025	Housing Studies	10	4
PY3025	Social Psychology	10	3
TX3025	Textile Science	10	4
Year 2, Semester 2			
CS3025	Consumers & the Law	10	4
FD3026	Food Science & Technology	10	4
NU3025	Nutrition	10	4
PL3025	Human Physiology	10	4
TX3026	Textile Design	10	6
Year 2, Summer School			
HS3026	Practicum 2	10	-
Year 3, Semester 1			
FD3025	Food Studies	10	5
HS3027	Research Methods	10	3
MG3026	Resource Management	10	3
Elective	Select from the list below	10	
Elective	Select from the list below	10	

Year 3, Semester 2

HS3028	Research Project	10	2
MG3027	Business Organisation	10	3
Elective	Select from the list below	10	
Elective	Select from the list below	10	
Elective	Select from the list below	10	

Electives

AD3013	Personnel Management	10	4
FD3027	Food Management for Families	10	5
FD3028	Food Production & Presentation	10	6
HS3029	The Home Economist as Counsellor	10	4
HS3031	Independent Study 1	10	1
HS3032	Independent Study 2	10	1
MK3011	Strategic Marketing	10	4
MK3025	Product Development	10	3
NU3026	Social Nutrition	10	4
PY3026	Interpersonal Relations	10	4
PY3027	Developmental Psychology	10	3
TX3027	Textile Marketing	10	4

Other appropriate subjects from degree level courses.

Carseldine campus

Course Structures

■ Graduate Diploma of Health Science – Health Education (GDHE)

Location: Carseldine campus

Course Duration: 2 years part-time internal and external

Total Credit Points: 80

Standard Credit Points/Full-Time Semester: 40

Course Coordinator: Ms Mary-Lou O'Connor

Entry Requirements

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

- an approved degree/diploma, or General Nursing Certificate and two post-basic nursing certificates or equivalent; and
- at least one year's experience in the field of teaching or community health.

Special Course Requirements

There are three sections in the course – Core Studies, Professional Studies and Elective Studies. All Core Studies are compulsory; however, with the approval of the Course Coordinator HE4027 Independent Study (10 credit points) may be substituted for one of the Core Studies subjects. Subjects in Professional Studies are elective, and may be taken from one of the two strands, ie, School Health or Community Health. The scheduling of elective subjects is subject to staff availability and student demand.

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
HE4010	Health & Lifestyle in Australia	10	3
HE4014	School Health Education	10	3
	OR		
HE4016	Community Health Education	10	3
Year 1, Semester 2			
HE4007	Epidemiology & Environmental Health	10	3
HE4011	Communication Theory & Skills	10	3
Year 2, Semester 1			
HE4012	Research & Evaluation	10	3
HE4013	Health Education & the Change Process	10	3
Year 2, Semester 2			
HE4015	School Health Program Planning	10	3
	OR		
HE4017	Community Health Program Planning	10	3
Elective	Select from List 36		5
Elective	Select from List 36		5
ELECTIVES			
List 36			
HE4018	Curriculum Design	5	3
HE4019	Health Behaviour Change	5	3
HE4020	Education Techniques for Health Promotion	5	3
HE4021	Health Services	5	3
HE4022	Community Nutrition	5	3
HE4023	Drugs & Alcohol	5	3
HE4024	Human Sexuality	5	3
HE4025	Independent Studies 1	5	-
HE4026	Independent Studies 2	5	-
HE4027	Independent Studies	10	-

FACULTY OF INFORMATION TECHNOLOGY

FACULTY OF INFORMATION TECHNOLOGY

Gardens Point campus

■ Information for all Information Technology students, Gardens Point campus

Graduation rules

This information is relevant to all Faculty of Information Technology courses.

To qualify for graduation, students admitted to courses offered by the Faculty of Information Technology prior to 1990 should:

- (i) obtain a grade of at least 3 in all subjects specified for the award; and
- (ii) obtain a Graduation Index of at least 3.9. (Graduation Index is 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. A student may repeat any subject in order to upgrade the result and hence increase the Graduation Index.)

Students who commence study towards a QUT award from First Semester, 1990 (inclusive) are covered by QUT Student Rules, Procedures and Policies.

Rules and regulations

Students undertaking courses in the Faculty of Information Technology should acquaint themselves with Faculty policy on assessment, deferred examinations, and plagiarism in programming assignments. In many cases, Faculty policy is more explicit than University policy.

Cooperative Education Program (Elective Subject INB280 – Industrial Training Experience)

AIMS

The purpose of the Cooperative Education Program is to provide students with experience of a real world environment prior to the study of the more advanced aspects of the course in which they are enrolled. This experience:

- (i) enables the student to place the concepts learned in the first two years in context; and
- (ii) provides an experience that will enhance the benefits obtained from first year subjects.

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

SELECTION CRITERIA

To qualify for the Cooperative Education Program, 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 Cooperative Education Program is offered under the guise of the subject INB280 Industrial Training Experience and has the following features:

- ☐ The Faculty assists students to obtain suitable employment for the one-year period and also discusses the nature of the work to be undertaken with the employer. As employers choose their placements from interviews, the Faculty also arranges for students to attend sessions on interview techniques conducted by the Counselling Centre.
- ☐ An academic member of staff normally visits the student once per semester and discusses progress with the student and a representative of the employer.
- ☐ During the twelve-month training period the student will write two reports on the experience, submit them to the employer for endorsement and comment, and then hand them to the Course Coordinator for assessment. The reports should highlight different aspects of the period, and include comments and recommendations.
- ☐ A pass in this module, as well as 18 credit points, will be granted on the basis of:
 - (i) satisfactory completion of an approved period of Cooperative Education; and
 - (ii) submission of satisfactory reports on the year's experience. The reports must be submitted not later than the due dates specified in the study guides.
 - ☐ A salary is paid to the student by the employer during this training period.
 - ☐ The Faculty carefully monitors all Cooperative Education placements and keeps a list of employers prepared to offer training. The Faculty makes its best endeavour to find suitable training places for all students who meet the selection criteria and elect to undertake this option.
 - ☐ Part-time students may apply for credit towards INB280 on the basis of their employment. Credit will be 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:
 - (i) a statement from the Course Coordinator that the arrangements have been discussed with the employer and that the proposed period of employment will provide appropriate work experience;
 - (ii) satisfactory reports, written by the student, endorsed by the employer and submitted no later than the due dates.
 - ☐ It is intended that full-time students on the scheme will devote their prime efforts to the Industrial Training Experience and will not, therefore, be permitted to register for more than one other subject per semester during that year.

SPECIAL NOTES

For students enrolled in ISJ243 Bachelor of Business – Information Management, INB280 replaces the project subject (ISB305) normally done in Year 3, Semester 2. It is recommended that these students also do ISB350 – Minor Studies, worth 3 credit points. This can take the form of a small project related to your Cooperative Education placement specific to Information Management. It can be arranged with the Faculty Student Officer, completed during the placement, and credited in Year 3, Semester 1. Students who choose not to do ISB350 will be required to do an elective to reach the minimum credit points for graduation.

Course Structures

■ Master of Applied Science – Computing (INN236)

Location: Gardens Point campus

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Gerry Finn

Entry Requirements

Applicants 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 Grade Point Average (GPA) of 4.00 (or its equivalent) on a 7 point scale. Selection may be determined on an individual basis and is subject to the approval of the Head of School.

Special Course Requirements

Students may be eligible for exemptions on the basis of equivalent subjects completed in earlier studies. Those students who have completed a suitable honours degree or who have completed a masters qualifying program may be exempted up to 96 credit points, ie, half of the total credit points of the course, typically those subjects in Years 1 and 2. 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 as prerequisites for core subjects. A maximum of 48 credit points from these undergraduate prerequisites may be credited towards completion of the course.

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:

Core Subjects

		Credit Contact	Points Hrs/Wk
CSN100	Theory of Computing I	12	3
CSN110	Compiler Construction	12	3
CSN210	Distributed Systems	12	3
CSN220	Artificial Intelligence	12	3
INN202	Computer Security	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.

Project Subjects

INN300	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 the number of projects selected. A minimum of two electives (24 credit points) must be selected 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

CSN300	Theory of Computing II	12	3
CSN310	Parallel Processing	12	3
CSN320	Formal Secure Systems	12	3
CSN330	Natural Language Processing	12	3
CSN340	Compiler Laboratory	12	3
CSN350	Advanced Graphics I	12	3
CSN360	Advanced Graphics II	12	3
INN310	Advanced Data Communications	12	3
ISN300	Information Systems II	12	3

Full-Time Course Structure

Full-time study programs should be discussed with the Course Coordinator. All such programs must be approved by the Head of School. Not all subjects are offered during the day. Full-time students may be required to attend a number of evening classes.

A sample sequence for the part-time program is outlined below.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CSN100	Theory of Computing I	12	3
INN202	Computer Security	12	3
Year 1, Semester 2			
CSN110	Compiler Construction	12	3
ISN100	Information Systems I	12	3
Year 2, Semester 1			
CSN210	Distributed Systems	12	3
	Elective	12	3
Year 2, Semester 2			
CSN220	Artificial Intelligence	12	3
	Elective	12	3
Year 3, Semester 1			
INN300	Minor Project	12	3
	Elective	12	3
Year 3, Semester 2			
INN301	Minor Project	12	3
	Elective	12	3
Year 4, Semester 1			
INN400	Major Project - Part I	12	3
	Elective	12	3

Year 4, Semester 2

INN450	Major Project - Part II	12	3
	Elective	12	3

■ Master of Information Technology (INN250)

Location: Gardens Point campus

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Bob Smyth

Entry Requirements

Applicants are required to have completed a degree level course which contains a major component in computing, or alternatively, a degree course in any discipline area followed by a graduate diploma level course in computing or library science. The minimum level of performance expected within prerequisite studies is a Grade Point Average (GPA) of 5.00 (or its equivalent) on a 7 point grading scale. Graduates of library science courses will have completed ISP101 Data Design and Processing (or its equivalent) prior to registration in the course. Selection may be determined on an individual basis and is subject to the approval of the Head of School.

Special Course Requirements

Students may be eligible for exemptions on the basis of equivalent subjects completed in earlier studies. Those students who have completed a suitable honours degree or who have completed a masters qualifying program may be exempted up to 96 credit points. 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 from these undergraduate prerequisites may be credited towards completion of the course.

Course Structure	Credit Points	Contact Hrs/Wk
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Core Subjects

INN201	Research Methodology	12	3
ISN200	Major Issues in Information Technology	12	3

These core subjects must be taken in the first semester.

Project Subjects

EITHER			
INN300	Minor Project	12	-
INN301	Minor Project	12	-
INN302	Minor Project	12	-
INN303	Minor Project	12	-

One minor project per semester

INN401	OR Major Project	48	-
INN500	OR Dissertation	96	-

To be completed within the last two semesters.

Electives

The offering of elective subjects in any semester will depend on sufficient minimum enrolments in the subject and the availability of staff. Listed below are recommended electives; other electives may be approved by the Course Coordinator.

INN202	Computer Security	12	3
ISN100	Information Systems I	12	3
ISN110	Formal Systems Specification	12	3
ISN120	Database Systems	12	3
ISN130	Object-Oriented Systems	12	3
ISN150	Computer Security Risk Modelling	12	3
ISN160	Knowledge-Based Systems	12	3
ISN170	Special Studies	12	3
ISN180	Human Computer Interface	12	3
ISN190	Comparative Study of Information Agencies	12	3
ISN210	Automated Systems Management	12	3
ISN220	Business Competitor Intelligence	12	3
ISN240	Classification	12	3
ISN250	The Information Industries	12	3
ISN260	Evaluation of Information Services & Organisations	12	3
ISN270	Social Impacts of Information Technology	12	3
ISN280	Organisations, Systems & Information	12	3

■ Graduate Diploma in Commercial Computing (ISM204)

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr David Edmond

Entry Requirements

An applicant seeking admission into the Graduate Diploma in Commercial Computing is required to:

- hold a degree or a diploma in a discipline other than computing* from a recognised university or college of advanced education;
- have completed, at a degree level, an introductory subject in computing (the equivalent of at least three hours per week for one semester).

Provision may be made for applicants whose degrees have not included an introductory computing subject to complete this subject as a non-award student before entering the course.

* Applicants with undergraduate degrees or diplomas which include major studies in computing will not be eligible for admission into the course.

Professional Recognition

This course is accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society.

Full-Time Course Structure

	Credit Points	Contact Hrs/Wk
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Semester 1

ISP100	The Computer System	12	3
ISP101	Data Design & Processing	12	3
ISP200	Systems Analysis & Design	12	3
INP270	Data Communications	12	3

Semester 2

Electives [minimum of 48 credit points]

Part-Time Course Structure

	Credit Points	Contact Hrs/Wk
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Year 1, Semester 1

ISP100	The Computer System	12	3
ISP101	Data Design & Processing	12	3

Year 1, Semester 2

ISP200	Systems Analysis & Design	12	3
INP270	Data Communications	12	3

Year 2, Semester 1

Electives [minimum of 24 credit points]

Year 2, Semester 2

Electives [minimum of 24 credit points]

Electives

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.

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.

FIRST SEMESTER ELECTIVES

ACP111	Accounting Principles I	12	3
ISP113	Principles of Information Management	12	3
ISP303	Programming	12	3
ISP381	Advanced Information Systems	12	3
ISP998	Special Topic - Commercial Computing	12	3

SECOND SEMESTER ELECTIVES

ACB360	Computer Security & Audit	12	3
ISP301	Advanced Database	12	3
ISP313	Expert Information Systems	12	3
ISP314	Information Systems Management	12	3
ISP383	Office Information Systems	12	3
ISP400	Advanced Programming	12	3
ISP401	Computing Project	12	3
ISP999	Special Topic - Commercial Computing	12	3

■ Graduate Diploma in Computing Science (CSM219)

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr 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 as a non-award student before entering the course.

Professional Recognition

This course is accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society.

Special Course Requirements

Students in the Graduate Diploma in Computing Science may be granted exemptions on the basis of their prior studies. Should such students have studied 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.

Students wishing to enrol in a full-time program should discuss choice of subjects with the Course Coordinator. Not all subjects are offered during the day. Full-time students may be required to attend evening classes.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Semester 1			
CSP112	Software Principles	12	3
CSP213	Scientific Applications	12	3
INP270	Data Communications	12	3
ISP101	Data Design & Processing	12	3

* Applicants with undergraduate degrees which include major studies in computing will not be eligible for admission into the course.

Semester 2

CSP211	Systems Architecture & Operating Systems	12	3
CSP214	Programming Languages & Structures	12	3
CSP960	Project Work	12	3
	Elective(s) [minimum of 12 credit points]		

Part-Time Course Structure

Credit Points **Contact Hrs/Wk**

Year 1, Semester 1

CSP112	Software Principles	12	3
ISP101	Data Design & Processing	12	3

Year 1, Semester 2

CSP211	Systems Architecture & Operating Systems	12	3
INP270	Data Communications	12	3

Year 2, Semester 1

CSP213	Scientific Applications	12	3
CSP214	Programming Languages & Structures	12	3

Year 2, Semester 2

CSP960	Project Work	12	3
	Elective(s) [minimum of 12 credit points]		

Electives

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.

Electives may be selected from the following list:

FIRST SEMESTER ELECTIVES

CSB320	Special Studies	9	3
CSB321	Graphics	9	3
CSB324	Artificial Intelligence	9	3
CSB326	Systems Programming	9	3
CSB350	Miscellaneous Studies	3	1
CSP970	Project Work A	12	3
ISB283	Database & Procedural Languages	12	3
ISP998	Special Topic - Commercial Computing	12	3

SECOND SEMESTER ELECTIVES

CSB319	Special Studies	9	3
CSB321	Graphics	9	3
CSB323	Data Security	9	3
CSB325	Expert Systems	9	3
CSB326	Systems Programming	9	3
CSB350	Miscellaneous Studies	3	1
CSP212	Languages & Language Processing	12	3
ISP301	Advanced Database	12	3
ISP383	Office Information Systems	12	3
ISP999	Special Topic - Commercial Computing	12	3

■ Graduate Diploma in Library Science (ISM165)

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr John Goodell

Entry Requirements

To be eligible for admission to the Graduate Diploma in Library Science, applicants are required to have a degree or a three-year diploma in a field other than library science and to have successfully completed an introductory computing subject at tertiary level.

Professional Recognition

Graduates are eligible to become 'Associates' (ie professional members) of the Australian Library and Information Association.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
ISP101	Data Design & Processing	12	3
ISP431	Collection Building & Acquisitions	12	3
ISP432	Organisation of Knowledge	12	3
ISP433	Information Sources & Services	12	3
Semester 2			
ISP441	Online Information Services	12	3
ISP442	Library Programs Management	12	3
ISP428	Field Experience	4	-
	One Library Science Elective	12	3
	One Library Science Elective	8	2
Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
ISP101	Data Design & Processing	12	3
ISP431	Collection Building & Acquisitions	12	3
Year 1, Semester 2			
ISP441	Online Information Services	12	3
ISP442	Library Programs Management	12	3
Year 2, Semester 1			
ISP432	Organisation of Knowledge	12	3
ISP433	Information Sources & Services	12	3
Year 2, Semester 2			
ISP428	Field Experience	4	-
	One Library Science Elective	12	3
	One Library Science Elective	8	2

Electives

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 the approval of the Head of School. Electives may be chosen from the following, or any other appropriate subject with the approval of the Head of School of Information Systems.

ISP414	Library Services to Young People	12	3
ISP419	Government Documents	12	3
ISP451	Advanced Organisation of Knowledge	12	3
ISP427	Special Topic	12	3
ISP437	Special Topic	8	2
ISP452	Individual Study	8	2
ISP453	Introduction to Records Management	8	2
ISP454	Library Programs & Services	8	2

■ Bachelor of Applied Science – Computing (Honours) (CSJ255)

Location: Gardens Point campus

Course Duration: 1 year full-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Gerry Finn

Entry Requirements

To be eligible for admission, students should have completed QUT's Bachelor of Applied Science – Computing or equivalent and should have attained a Grade Point Average (GPA) of at least 5.0 over that degree, including grades of at least credit in all subjects directly relevant to the proposed honours program. Application for admission should normally be made at the end of the final year of the pass degree, or within 18 months of completing that degree.

Applicants who do not satisfy the above conditions but who have demonstrated outstanding performance in only the final year of a degree, or whose application is based on other factors, including work experience or involvement in research, may be admitted at the discretion of the Dean.

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Semester 1			
CSN100	Theory of Computing I	12	3
CSN210	Distributed Systems	12	3
INN200	Research Methodology	12	3
INN202	Computer Security	12	3
Semester 2			
CSN110	Compiler Construction	12	3
INN210	Honours Project II	12	3
ISN100	Information Systems I	12	3
	Elective [minimum of 12 credit points]		

Electives

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.

One advanced elective chosen from the following:

CSN220	Artificial Intelligence	12	3
CSN300	Theory of Computing II	12	3
CSN310	Parallel Processing	12	3
CSN320	Formal Secure Systems	12	3
CSN330	Natural Language Processing	12	3
CSN340	Compiler Laboratory	12	3
CSN350	Advanced Graphics I	12	3
INN310	Advanced Data Communications	12	3
ISN300	Information Systems II	12	3

■ Bachelor of Business – Computing (Honours) (ISJ261)

Location: Gardens Point campus

Course Duration: 1 year full-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Shlomo Geva

Entry Requirements

To be eligible for admission, students should have completed QUT's Bachelor of Business – Computing or equivalent and should have attained a Grade Point Average (GPA) of at least 5.0 over that degree, including grades of at least credit in all subjects directly relevant to the proposed honours program. Application for admission should normally be made at the end of the final year of the pass degree, or within 18 months of completing that degree.

Applicants who do not satisfy the above conditions but who have demonstrated outstanding performance in only the final year of a degree, or whose application is based on other factors, including work experience or involvement in research, may be admitted at the discretion of the Dean.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Semester 1			
INN201	Research Methodology	12	3
INN202	Computer Security	12	3
ISN110	Formal Systems Specification	12	3
	Elective	12	3
Semester 2			
INN211	Honours Project	12	-
ISN100	Information Systems I	12	3
ISN120	Database Systems	12	3
	Elective	12	3

Electives

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 approval by the relevant Head of School.

ISN130	Object Oriented Systems	12	3
ISN150	Computer Security Risk Modelling	12	3
ISN160	Knowledge-Based Systems	12	3
ISN170	Special Studies	12	3

Electives may also be chosen from:

- ☐ any Faculty of Information Technology masters subject
- ☐ any QUT Faculty of Business postgraduate subject
- ☐ any QUT Faculty of Business undergraduate subject from the fifth or sixth semester of a normal full-time course.

■ Common First Year: Bachelor of Business – Computing/Bachelor of Applied Science – Computing (INJ232)

Location: Gardens Point campus

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

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Andreas Rosel

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
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Semester 1

CSB100	Introduction to Computer Science	9	3
INB100	Practice I (INJ232)	12	4
ISB101	Application Systems	9	3
ISB102	Representation of Information	9	3
MAB172	Quantitative Methods IB	9	3

Semester 2

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 II (INJ232)	12	4

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
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Year 1, Semester 1

CSB100	Introduction to Computer Science	9	3
INB105	Practice IA (INJ232)	6	2
ISB102	Representation of Information	9	3

Year 1, Semester 2

ACB181	Accounting Information Systems	9	3
INB110	Practice IB (INJ232)	6	2
ISB101	Application Systems	9	3

Year 2, Semester 1

CSB101	Computer Systems I	9	3
INB155	Practice IIA (INJ232)	6	2
MAB172	Quantitative Methods IB	9	3

Year 2, Semester 2

CMB104	Professional Communication	9	3
CSB110	Programming Principles	9	3
INB160	Practice IIB (INJ232)	6	2

■ Bachelor of Applied Science – Computing (CSJ128)

Location: Gardens Point campus

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

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Mike Roggenkamp

Professional Recognition

This course is accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society.

Full-Time Course Structure

Credit Points	Contact Hrs/Wk
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Entry into this course is dependent upon admission to and progression through the Common First Year (INJ232). *See INJ232 Structure for Semesters 1 and 2.*

Year 2, Semester 1

CSB200	Foundations of Computing I	9	3
CSB201	Computer Systems II	9	3
INB200	Practice III (CSJ128)	12	4
INB270	Data Communications	9	3
ISB202	Database & Procedural Languages	9	3

Year 2, Semester 2

CSB210	Foundations of Computing II	9	3
CSB212	Languages & Language Processing	9	3
CSB213	Scientific Applications	9	3
INB250	Practice IV (CSJ128)	12	4
ISB201	Information Systems Analysis & Design I	9	3

Year 3, Semester 1

CSB301	Operating Systems	9	3
CSB302	Software Engineering	9	3
INB302	Practice V (CSJ128)	12	4
Electives [minimum of 18 credit points]			

Year 3, Semester 2

CSB311	Advanced Computer Architectures	9	3
CSB960	Project Work	12	4
Electives [minimum of 27 credit points]			

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

Entry into this course is dependent upon admission to and progression through the Common First Year (INJ232). See *INJ232 Structure for Semesters 1-4*.

Year 3, Semester 1

CSB201	Computer Systems II	9	3
INB205	Practice IIIA (CSJ128)	6	2
ISB201	Information Systems Analysis & Design I	9	3

Year 3, Semester 2

CSB200	Foundations of Computing I	9	3
INB210	Practice IIIB (CSJ128)	6	2
INB270	Data Communication	9	3

Year 4, Semester 1

CSB210	Foundations of Computing II	9	3
CSB213	Scientific Applications	9	3
INB255	Practice IVA (CSJ128)	6	2

Year 4, Semester 2

CSB212	Languages & Language Processing	9	3
INB260	Computing Practice IV (CSJ128)	6	2
ISB202	Database & Procedural Languages	9	3

Year 5, Semester 1

CSB302	Software Engineering	9	3
INB312	Practice VA (CSJ128)	6	2
	Electives [minimum of 9 credit points]		

Year 5, Semester 2

CSB301	Operating Systems	9	3
INB322	Practice VB (CSJ128)	6	2
	Electives [minimum of 9 credit points]		

Year 6, Semester 1

CSB311	Advanced Computer Architectures	9	3
	Electives [minimum of 18 credit points]		

Year 6, Semester 2

CSB960	Project Work	12	4
	Elective [minimum of 9 credit points]		

Electives

Electives to a total of 45 credit points are chosen from the following, or, alternatively, other approved subjects may be selected.

FIRST SEMESTER ELECTIVES

CSB320	Special Studies	9	3
CSB321	Graphics	9	3
CSB324	Artificial Intelligence	9	3
CSB326	Systems Programming	9	3
CSB970	Project Work*	12	4
ISB210	Information Systems Analysis & Design II	9	3
ISB302	Database Management	9	3
ISB303	Office Information Systems	9	3
INB099	English for Academic Purposes+	9	3
MNB302	Principles of Management Technologists	9	2
MNB091	Marketing	9	2

* First half of an optional year-long project, subject to approval of Course Coordinator.

+ Subject to approval by the Dean of Faculty.

SECOND SEMESTER ELECTIVES

CSB319	Special Studies	9	3
CSB321	Graphics	9	3
CSB323	Data Security	9	3
CSB325	Expert Systems	9	3
CSB326	Systems Programming	9	3
ISB210	Information Systems Analysis & Design II	9	3
ISB302	Database Management	9	3
ISB303	Office Information Systems	9	3
MNB302	Principles of Management	9	2

SPECIAL ELECTIVE

INB280 Industrial Training Experience.

For details see the 'Information for all Information Technology Students' at the front of this Faculty's section (page 409).

■ Bachelor of Business – Computing (ISJ210)

Location: Gardens Point campus

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

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Alison Anderson

Professional Recognition

This course is accredited by the Australian Computer Society as meeting the knowledge requirements associated with the grade of 'Member' of the Society.

Full-Time Course Structure

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

Entry into this course is dependent upon admission to and progression through the Common First Year (INJ232). See *INJ232 Structure for Semesters 1 and 2*.

Year 2, Semester 1

INB201	Practice III (ISJ210)	12	4
INB270	Data Communications	9	3
ISB201	Information Systems Analysis & Design I	9	3
ISB202	Database & Procedural Languages	9	3
MNB405	Management Science A	9	2

Year 2, Semester 2

ACB282	Managerial Accounting Principles	9	3
INB251	Practice IV (ISJ210)	12	4
ISB210	Information Systems Analysis & Design II	9	3
MNB302	Principles of Management Elective+	9	2

Year 3, Semester 1

INB300	Project Work*	12	4
ISB301	Advanced Information Systems	9	3
ISB302	Database Management	9	3

* Subject extends over two semesters.

+ See section on Electives.

ISB303	Office Information Systems Elective+	9	3
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Year 3, Semester 2

INB300	Project Work*	12	4
ISB313	Expert Information Systems	9	3
ISB314	Information Systems Management Elective+	9	3

Part-Time Course Structure

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

Entry into this course is dependent upon admission to and progression through the Common First Year (INJ232). *See INJ232 Structure for Semesters 1-4.*

Year 3, Semester 1

INB206	Practice IIIA (ISJ210)	6	2
ISB201	Information Systems Analysis & Design I	9	3
MNB405	Management Science A	9	2

Year 3, Semester 2

INB211	Practice IIIB (ISJ210)	6	2
INB270	Data Communications	9	3
ISB202	Database & Procedural Languages	9	3

Year 4, Semester 1

INB256	Practice IVA (ISJ210)	6	2
ISB210	Information Systems Analysis & Design II	9	3
MNB302	Principles of Management	9	2

Year 4, Semester 2

ACB282	Managerial Accounting Principles	9	3
INB261	Practice IVB (ISJ210) Elective+	6	2

Year 5, Semester 1

ISB301	Advanced Information Systems	9	3
ISB302	Database Management Elective+	9	3

Year 5, Semester 2

ISB303	Office Information Systems	9	3
ISB313	Expert Information Systems	9	3
ISB314	Information Systems Management	9	3

Year 6, Semester 1

INB300	Project Work* Elective+	12	4
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Year 6, Semester 2

INB300	Project Work* Elective+	12	4
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Electives

Electives must total a minimum of 36 credit points, 18 of which must be business electives. Business electives may be chosen from any subject in degree courses offered by the Faculty of Business subject to prerequisites and formal approval. General electives

* Subject extends over two semesters.

+ See section on Electives.

may be chosen from any subject in any QUT degree course subject to prerequisites and formal approval.

Completion of INB280 Industrial Training Experience, between the second and third years of coursework, replaces the two business electives. For more details about the Cooperative Education Program see the 'Information for all Information Technology Students' at the front of this Faculty's section (page 409).

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. Recommended electives are:

		Credit Points	Contact Hrs/Wk
FIRST SEMESTER ELECTIVES			
CSB213	Scientific Applications	9	3
INB099	English for Academic Purposes*	9	3
ISB113	Principles of Information Management	9	3
ISB350	Minor Studies	3	1
ISB998	Special Topic - Business Computing	9	3
MNB091	Marketing	9	2
MNB151	Microeconomic Analysis	12	3
SECOND SEMESTER ELECTIVES			
ACB230	Financial Management I	12	4
ACB360	Computer Security & Audit	12	3
CSB213	Scientific Applications	9	3
CSB323	Data Security	9	3
ISB219	Advanced COBOL	9	3
ISB350	Minor Studies	3	1
ISB999	Special Topic - Business Computing	9	3
MNB151	Microeconomic Analysis	12	3
MNB181	Australian National Government B	12	3
MNB252	Business Statistics	12	3

■ Bachelor of Business – Information Management (ISJ243)

Location: Gardens Point campus

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

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Michael Middleton

Professional Recognition

This course is accredited by the Australian Computer Society as meeting the requirements associated with the grade of 'Member' of the Society.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CSB100	Introduction to Computer Science	9	3
INB100	Practice I (INJ232)	12	4

* Subject to approval by the Dean of Faculty.

ISB101	Application Systems	9	3
ISB102	Representation of Information	9	3
ISB113	Principles of Information Management	9	3

Year 1, Semester 2

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 II (INJ232)	12	4

Year 2, Semester 1

INB202	Practice III (ISJ243)	12	4
ISB201	Information Systems Analysis & Design I	9	3
ISB203	Advanced Database	9	3
ISB215	External Sources of Information	9	3
MNB302	Principles of Management	9	2

Year 2, Semester 2

INB252	Practice IV (ISJ243)	12	4
INB270	Data Communications	9	3
ISB214	The Information Resource	9	3
LWS004	Information Managers & the Law	9	3
MNB413	Applied Cognitive Psychology	9	2

Year 3, Semester 1

ISB216	Political & Social Aspects of Information Technology	9	3
ISB301	Advanced Information Systems	9	3
ISB303	Office Information Systems	9	3
MNB591	Economics of Information	9	2
	Elective [minimum of 9 credit points]		

Year 3, Semester 2

ISB305	Project*	12	4
ISB314	Information Systems Management	9	3
ISB316	Information Support Systems	9	3
ISB318	Strategic Information Management	9	3
	Elective [minimum of 12 credit points]		

Part-Time Course Structure

Credit Points **Contact Hrs/Wk**

Year 1, Semester 1

CSB100	Introduction to Computer Science	9	3
INB105	Practice IA (INJ232)	6	2
ISB102	Representation of Information	9	3

Year 1, Semester 2

ACB181	Accounting Information Systems I	9	3
INB110	Practice IB (INJ232)	6	2
ISB101	Application Systems	9	3

Year 2, Semester 1

CSB101	Computer Systems I	9	3
INB155	Practice IIA (INJ232)	6	2
ISB113	Principles of Information Management	9	3

* ISB350 Minor Studies (in conjunction with INB280) Credit Points 3/Contact Hrs/Wk 1. INB280 Industrial Training Experience may be taken as an alternative to ISB305. It is completed between the second and third years of study. See 'Information for all Information Technology Students' at the front of this section.

Year 2, Semester 2

CMB104	Professional Communication	9	3
CSB110	Programming Principles	9	3
INB160	Practice IIB (INJ232)	6	2

Year 3, Semester 1

INB207	Practice IIIA (ISJ243)	6	2
ISB215	External Sources of Information	9	3
MNB302	Principles of Management	9	2

Year 3, Semester 2

INB212	Practice IIIB (ISJ243)	6	2
ISB214	The Information Resource	9	3
MNB413	Applied Cognitive Psychology	9	2

Year 4, Semester 1

INB257	Practice IVA (ISJ243)	6	2
ISB201	Information Systems Analysis & Design I	9	3
ISB203	Advanced Database	9	3

Year 4, Semester 2

INB262	Practice IVB (ISJ243)	6	2
INB270	Data Communications	9	3
LWS004	Information Managers & the Law	9	3

Year 5, Semester 1

ISB216	Political & Social Aspects of Information Technology	9	3
ISB301	Advanced Information Systems	9	3
MNB591	Economics of Information	9	3

Year 5, Semester 2

ISB314	Information Systems Management	9	3
ISB316	Information Support Systems	9	3
	Elective [minimum of 12 credit points]		

Year 6, Semester 1

ISB303	Office Information Systems	9	3
	Elective [minimum of 9 credit points]		

Year 6, Semester 2

ISB305	Project*	12	4
ISB318	Strategic Information Management	9	3

Electives

Electives to the value of at least 21 credit points may be chosen from any subject in any QUT degree course subject to prerequisites and formal approval. 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.

Special Electives

		Credit Points	Contact Hrs/Wk
INB099	English for Academic Purposes (Subject to the Dean's approval)	9	3

* ISB350 Minor Studies (in conjunction with INB280) Credit Points 3/Contact Hrs/Wk 1. INB280 Industrial Training Experience may be taken as an alternative to ISB305. It is completed between the second and third years of study. See 'Information for all Information Technology Students' at the front of this section.

Kedron Park campus

Course Structures

■ Graduate Diploma of Business – Information Systems (GDIS)

Location: Kedron Park campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Marion Orlowski

Entry Requirements

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

- (i) an approved degree; and
- (ii) successful completion of first level degree subjects in business computing and computer programming, or equivalent.

Professional Recognition

This course is accredited by the Australian Computer Society.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CO3097	Information Analysis	12	4
CO4051	Commercial Systems	12	4
Year 1, Semester 2			
CO3086	Business Systems 2	12	4
	Elective	12	
Year 2, Semester 1			
CO4052	Database Management Systems	12	4
	Elective	12	
Year 2, Semester 2			
CO3093	Systems Planning	12	4
CO4050	Advanced Database Technology	12	4

For details of the full-time course structure, consult the Course Coordinator.

■ Bachelor of Applied Science – Computing (BASC)

Location: Kedron Park campus

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

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Hamish Bentley

Professional Recognition

This course is accredited by the Australian Computer Society.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
AD3053	Professional Communication	12	3
CO3100	Introduction to Software Engineering	12	3
CO3101	Introduction to Programming	12	3
CO3104	Introduction to Information Systems	12	3
Year 1, Semester 2			
CO3097	Information Analysis	12	4
CO3102	Concepts in Computer Systems	12	3
CO3103	Data Structures	12	3
CO3108	Introduction to Computer Networks	12	3
Year 2, Semester 1			
CO3090	Database Systems 1	12	4
CO3095	Commercial Applications Development	12	4
CO3105	Systems Software	12	3
CO3109	Systems Analysis & Design	12	3
Year 2, Semester 2			
CO3089	Commercial Systems Development	12	4
CO3098	Database Systems 2	12	4
CO3107	Software Engineering	12	3
	Elective	12	
Year 3, Semester 1			
CO3110	Systems Development Project	12	3
CO3118	Transaction Based Systems	12	3
	Elective	12	
	Elective	12	
Year 3, Semester 2			
CO3011	Social Implications of Computing	12	3
CO3093	Systems Planning	12	4
CO3091	Industry Project	12	4
	OR		
	Elective	12	
	Elective	12	
Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CO3101	Introduction to Programming	12	3
CO3102	Concepts in Computer Systems	12	3
Year 1, Semester 2			
CO3103	Data Structures	12	3
CO3105	Systems Software	12	3

To develop a course plan, part-time students are advised to follow the sequence of evening offerings shown below. Students are expected to discuss their plan with the Course Coordinator.

Subjects offered in odd numbered years

AD3053	Professional Communication	12	3
CO3089	Commercial Systems Development	12	4
CO3095	Commercial Applications Development	12	4
CO3097	Information Analysis	12	4
CO3098	Database Systems 2	12	4
CO3100	Introduction to Software Engineering	12	3
CO3102	Concepts in Computer Systems	12	3
CO3104	Introduction to Information Systems	12	3
CO3108	Introduction to Computer Networks	12	3
	Two electives		

Subjects offered in even numbered years

CO3110	Systems Development Project	12	3
CO3111	Social Implications of Computing	12	3
CO3090	Database Systems 1	12	4
CO3093	Systems Planning	12	4
CO3101	Introduction to Programming	12	3
CO3102	Concepts in Computer Systems	12	3
CO3103	Data Structures	12	3
CO3105	Systems Software	12	3
CO3107	Software Engineering	12	3
CO3109	Systems Analysis & Design	12	3
	Two electives	12	3

Enrolment in elective subjects requires the approval of the Course Coordinator.

The following electives are available:

		Credit Points	Contact Hrs/Wk
CO3088	Computer Organisation	12	4
CO3091	Industry Project	12	4
CO3112	Graphics Systems	12	3
CO3113	Knowledge Engineering	12	3
CO3114	Intelligent Information Systems	12	3
CO3115	Computer Networks	12	3
CO3116	Special Topic	12	-

Further electives are available from the Bachelor of Business degree.

■ Bachelor of Business – Computing

Location: Kedron Park campus

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

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Ms Lynn Gallagher

Coordinator: Mr Glenn Stewart

Professional Recognition

The degree is accredited by the Australian Computer Society (ACS).

Special Course Requirements

Students enrolled in the Bachelor of Business are required to choose a major. Majors may be changed after one or two semesters of study without any loss of credit for the subjects passed.

Electives may be chosen from any subjects in the Bachelor of Business program. Students may wish to choose electives from groups of related subjects to make up a minor specialisation. If they do not wish to pick up a minor specialisation they may select electives from across a wide range of subjects. In all cases prerequisites have to be met. The prerequisite standard is to be understood as a grade of four or better.

Not all majors and minors may be offered every year. The University endeavours to ensure that when substantial changes to a course occur students already enrolled are not disadvantaged with respect to completion of the course. Subjects will generally be offered in the day and evening modes. However, when the subject enrolment is low, in most cases, only the evening offering will be provided.

Full-Time Course Structure

**Credit
Points**

**Contact
Hrs/Wk**

Note: Subjects are only offered in the semester in which they are listed.

Year 1, Semester 1

AC3013	Accounting	12	4
AD3040	Organisational Communication 1	12	4
CO3104	Introduction to Information Systems	12	4
MK3022	Business Quantitative Methods 1	12	4

Year 1, Semester 2

AD3048	Management & Industrial Relations	12	4
CO3085	Business Systems 1	12	4
CO3097	Information Analysis	12	4
CO3101	Introduction to Programming	12	3

Year 2, Semester 1

LW3012	Legal Studies 1	12	4
CO3090	Database Systems 1	12	4
CO3095	Commercial Applications Development	12	4
	Elective	12	

Year 2, Semester 2

CO3086	Business Systems 2	12	4
CO3089	Commercial Systems Development	12	4
CO3098	Database Systems 2	12	4
CO3108	Introduction to Computer Networks	12	3

Year 3, Semester 1

CO3092	Online Systems	12	4
CO3096	Computer Systems Management	12	4
CO3099	Decision Support Systems	12	4
	Elective	12	

Year 3, Semester 2

CO3087	Programming Languages	12	4
CO3091	Industry Project	12	4
	OR		
	Elective	12	
CO3093	Systems Planning	12	4
	Elective	12	

Part-Time Course Structure

Credit Points **Contact Hrs/Wk**

A suggested course enrolment for part-time computing major students in 1990 is as follows:

Year 1, Semester 1

CO3104	Introduction to Information Systems	12	4
CO3097	Information Analysis	12	4

Year 1, Semester 2

CO3085	Business Systems 1	12	4
CO3101	Introduction to Programming	12	4

Part-time students may design their own course progression with the concurrence of the Course Coordinator. Students are recommended to follow the full-time progression as closely as possible, taking into account commitments they may have at work. It is suggested that students plan their course clustering the following sets of subjects as close together as possible:

Stream 1: CO3097 Information Analysis, CO3090 Database Systems 1, CO3098 Database Systems 2.

Stream 2: CO3095 Commercial Applications Development, CO3089 Commercial Systems Development, CO3092 Online Systems.

Stream 3: CO3085 Business Systems 1, CO3086 Business Systems 2.

The following subjects are offered in the evening in each year:

AC3013	Accounting	12	4
AD3040	Organisational Communication 1	12	4
AD3048	Management & Industrial Relations	12	4
CO3085	Business Systems 1	12	4
CO3093	Systems Planning	12	4
CO3095	Commercial Applications Development	12	4
CO3099	Decision Support Systems	12	4
CO3104	Introduction to Information Systems	12	4
LW3012	Legal Studies 1	12	4
MK3022	Business Quantitative Methods 1	12	4

The following subjects are offered in the evening in odd numbered years:

CO3088	Computer Organisation	12	4
CO3089	Commercial Systems Development	12	4
CO3092	Online Systems	12	4
CO3096	Computer Systems Management	12	4
CO3097	Information Analysis	12	4
CO3098	Database Systems 2	12	4

The following subjects are offered in the evening in even numbered years:

CO3087	Programming Languages	12	4
CO3090	Database Systems 1	12	4

■ Associate Diploma of Business – Computing (ADCM)

Location: Kedron Park campus

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Neville Richter

Professional Recognition

This course is accredited by the Australian Computer Society.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
AD1004	Introduction to Management	12	4
AD1005	Communication	12	4
CO1025	Introduction to Computers	12	4
CO1035	Software Principles	12	4
Year 1, Semester 2			
AC1002	Accounting Principles	12	4
CO1026	Commercial Programming	12	4
CO1027	Systems Analysis	12	4
ST1011	Quantitative Methods	12	4
Year 2, Semester 1			
CO1029	Microcomputers: Hardware & Applications	12	4
CO1031	Software Development	12	4
CO1032	Database Systems 1	12	4
CO1036	Systems Design	12	4
Year 2, Semester 2			
CO1028	Computer Languages	12	4
CO1030	Computer Network	12	4
CO1033	Database Systems 2	12	4
CO1034	Project	12	-
	OR		
	Elective	12	
Part-Time Course Structure (for students commencing study in even years)			
Year 1, Semester 1			
CO1025	Introduction to Computers	12	4
CO1035	Software Principles	12	4
Year 1, Semester 2			
AC1002	Accounting Principles	12	4
CO1026	Commercial Programming	12	4
Year 2, Semester 1			
AD1004	Introduction to Management	12	4
AD1005	Communication	12	4
Year 2, Semester 2			
CO1027	Systems Analysis	12	4
ST1011	Quantitative Methods	12	4

Year 3, Semester 1

CO1031	Software Development	12	4
CO1036	Systems Design	12	4

Year 3, Semester 2

CO1028	Computer Languages	12	4
CO1030	Computer Networks	12	4

Year 4, Semester 1

CO1029	Microcomputers: Hardware & Applications	12	4
CO1032	Database Systems 1	12	4

Year 4, Semester 2

CO1033	Database Systems 2	12	4
CO1034	Project OR Elective	12	-

Part-Time Course Structure (for students commencing study in odd years)**Year 1, Semester 1**

CO1025	Introduction to Computers	12	4
CO1035	Software Principles	12	4

Year 1, Semester 2

AC1002	Accounting Principles	12	4
CO1026	Commercial Programming	12	4

Year 2, Semester 1

AD1004	Introduction to Management	12	4
AD1005	Communication	12	4

Year 2, Semester 2

CO1027	Systems Analysis	12	4
ST1011	Quantitative Methods	12	4

Year 3, Semester 1

CO1029	Microcomputers: Hardware & Applications	12	4
CO1032	Database Systems 1	12	4

Year 3, Semester 2

CO1033	Database Systems 2	12	4
CO1034	Project OR Elective	12	-

Year 4, Semester 1

CO1031	Software Development	12	4
CO1036	Software Design	12	4

Year 4, Semester 2

CO1028	Computer Programming	12	4
CO1030	Computer Networks	12	4

FACULTY OF LAW

LAW

FACULTY OF LAW

Gardens Point campus

Course Structures

■ Master of Laws (LWN234)

Location: Gardens Point campus

Course Duration: 1 year full-time, 3 years part-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Entry Requirements

Applicants for admission shall have satisfied one of the following conditions:

- (i) completed the requirements for the degree of Bachelor of Laws of the Queensland University of Technology;
- (ii) completed the requirements for the award of a degree in law of another tertiary institution which, in the opinion of the Dean, maintains standards comparable with those required for the award of the degree of Bachelor of Laws of the Queensland University of Technology;
- (iii) hold a professional qualification in law and at least three years of professional legal experience subsequent to first admission to practice and who also satisfies the Dean that they have the requisite ability to complete the LLM by Coursework degree.

Course Structure

- (a) The course structure comprises 96 credit points of coursework subjects for a Pass degree together with a minor thesis for an Honours degree.
- (b) The subjects from which 96 credit points shall be chosen are, subject to availability:

		Credit Points
LWN001	Advanced Company Law*	24
LWN002	Advanced Constitutional Law*	24
LWN003	Advanced Family Law*	24
LWN004	Advanced Law of Trusts*	24
LWN005	Trade Practices & Consumer Protection*	24
LWN006	Business Planning: Taxation Constraints*	24
LWN007	Commercial Arbitration*	24
LWN008	Commercial Leases*	24
LWN009	Law Relating to Building & Engineering Contracts*	24
LWN010	Legislation*	24
LWN011	Litigation*	24
LWN012	Pacific Legal System*	24
LWN013	Commercial Remedies*	24
LWN014	Resources Development Law*	24
LWN015	The Criminal Justice System*	24
LWN016	Tribunals & Enquiries*	24
LWN017	Restitution	12
LWN018	Select Problems of Trusts	12
LWN019	Taxation of Business Entities	12

* Subject extends over two semesters.

LWN020	Non-Resident & Foreign Source Taxation	12
LWN021	Banking & Finance Law I	12
LWN022	Banking & Finance Law II	12
LWN023	International Trade Law*	24
LWN024	Select Problems of Tribunals and Enquiries	12
LWN025	Research Project I	12
LWN026	Research Project II*	24
LWN032	Credit for UQ Subject 1	12
LWN033	Credit for UQ Subject 2	12
LWN034	Credit for UQ Subject 3*	24

(c) The code number of the minor thesis is LWN100.

Subjects Offered in 1991

It is intended that the following subjects will be offered in 1991:

LWN001	Advanced Company Law
LWN004	Advanced Law of Trusts
LWN005	Trade Practices & Consumer Protection
LWN008	Commercial Leases
LWN011	Litigation
LWN017	Restitution (First Semester)
LWN019	Taxation of Business Entities (First Semester)
LWN020	Non-Resident and Foreign Source Taxation (Second Semester)
LWN021	Banking & Finance Law I (First Semester)
LWN022	Banking & Finance Law II (Second Semester)
LWN024	Select Problems of Tribunals & Enquiries (Second Semester)
LWN025	Research Project I
LWN026	Research Project II

LWN100 Honours Dissertation

A coursework student who has obtained 96 credit points and who has a Grade Point Average of 6 or better shall be eligible to enrol for an Honours Dissertation.

The Honours Dissertation 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 Honours Dissertation 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 Honours Dissertation. At the same time, the student shall submit the name of a supervisor willing to supervise the dissertation. If the topic and the supervisor are approved, the student shall pursue his or her research for the dissertation under the direction of the supervisor.

The student shall submit four clear typed copies of his or her dissertation 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 Honours Dissertation. On submission of the dissertation, the student shall furnish a signed statement that the dissertation is his or her work alone, except where due acknowledgment is made in the text, and does not include material which has been previously submitted or accepted for a degree or diploma. The dissertation shall be referred to two examiners. Each examiner shall report as to whether, in his or her opinion, the dissertation 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 dissertation:

- (a) be accepted; or
- (b) not be accepted; or
- (c) be accepted subject to amendments to be made to the satisfaction of the supervisor,

* Subject extends over two semesters.

and, in any event, shall recommend that the dissertation be awarded a grade of fail or one of the pass grades. Following acceptance of the dissertation, two copies shall be bound in an approved form at the student's expense and one copy handed to the Law Librarian for deposit in the QUT Faculty of Law Library and the other copy submitted for inclusion in the QUT University Library. Any corrections resulting from the examiners' assessment shall be made prior to binding, and by retyping if they would otherwise be obtrusive.

■ Master of Legal Practice (LWN278)*

Location: Gardens Point campus

Course Duration: Minimum of one semester and maximum of three semesters, following completion of the Graduate Diploma in Legal Practice

Total Credit Points: 48 (including 48 credit points for GradDip Legal Prac)

Standard Credit Points/Full-time Semester: 48

Entry Requirements

To be eligible for admission to the Master of Legal Practice an applicant shall:

- (i) hold or be entitled to be admitted to an approved Bachelor's Degree (UGI) in Law;
- (ii) have satisfactorily completed the requirements for the Graduate Diploma in Legal Practice at a high level of achievement (GPA of at least 5.0); and
- (iii) otherwise satisfy entry requirements equivalent to those of the LLM offered by the Faculty of Law.

Course Structure

As noted under Entry Requirement (ii) students must satisfactorily complete the Graduate Diploma in Legal Practice at a high level of achievement. Thereafter, students granted a place in the course quota must complete a Research Dissertation.

It is expected that the Research Dissertation will relate to one of the core subject areas covered in the Graduate Diploma in Legal Practice and have an 'applied law' orientation. Set out below are examples of topics which indicate the type of Research Dissertation expected:

- ☐ Law and Practice difficulties in staged resort development.
- ☐ A comparative and effectiveness analysis of 'judgment by default' procedures and practices in the District, Supreme and Federal Courts.
- ☐ Jurisdictional issues and procedural difficulties in obtaining injunctive relief in the Supreme, Federal and Family Courts.

Research Dissertation (LWN300)

The Research Dissertation (dissertation) shall be approximately 20,000 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 dissertation to the Director of Legal Practice not later than the end of February in the year in which the student is enrolled for the Master of Legal Practice. At the same time, the student shall submit the name of a supervisor

* Offered subject to final approval.

willing to supervise the dissertation. If the topic and the supervisor are considered by the Director of Legal Practice to be satisfactory, the Director shall recommend approval of the topic and the supervisor to the Postgraduate Committee. On approval of the topic and the supervisor by the Postgraduate Committee the student shall pursue his or her research for the dissertation under the direction of the supervisor.

The student shall submit four clear typed copies of his or her dissertation to the Director of Legal Practice not later than eighteen months after the date on which the student enrolled for the Master of Legal Practice. On submission of the dissertation, the student shall furnish a statement signed by him or her that the dissertation is his or her work alone, except where due acknowledgment is made in the text, and does not include material which has been previously submitted or accepted for a degree or diploma. The Postgraduate Committee shall refer the dissertation to two examiners recommended to it by the Director of Legal Practice. One of the examiners shall normally be a practitioner specialising or experienced in the area addressed in the dissertation and the other a Faculty member. Each examiner shall report as to whether in his or her opinion, the dissertation 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.

Following acceptance of the dissertation, two copies shall be bound in an approved form at the student's expense and one copy submitted to the Faculty of Law Library and the other copy submitted for inclusion in the QUT University Library. Any corrections resulting from the examiners' assessment shall be made prior to binding, and by retyping if they would otherwise be obtrusive.

■ Graduate Diploma in Legal Practice (LWM196)

Location: Gardens Point campus

Course Duration

The course is a full-time course beginning in February each year and lasting one academic year, ie, 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

- (i) To be eligible for admission to the Legal Practice course, an applicant must hold, or be entitled to be admitted to, an approved Law degree.
- (ii) An applicant who does not satisfy the above requirements may apply for special consideration.
- (iii) If there are more eligible applicants than places in the quota, a ballot will be held and successful applicants will be advised that a place is available to them. Applicants who are unsuccessful in the ballot will be placed on a numbered waiting list, in the order of the draw, and immediately advised of their position on the waiting list. Any place in the quota which becomes available prior to the commencement of the course will be allocated in the order of the numbered waiting list.

Content

Eight core subject areas are addressed and within these core subjects twenty-four topic areas are covered. The core subjects and topic areas and the approximate number of hours devoted to them are:

PROPERTY	
Conveyancing Practice	(153.00)
Lease Practice	(109.00)
Securities	(81.25)
Town Planning	(12.50)
COMMERCIAL	
Trade Practices	(12.50)
Commercial Transactions	(82.25)
Company Practice	(60.00)
Insurance Law	(7.00)
LITIGATION	
Civil Litigation	(165.50)
Creditors' Remedies	(37.25)
Criminal Law Practice	(38.50)
Industrial Law	(13.50)
FAMILY	
Family Law Practice	(125.25)
Legal Aid	(6.00)
TRUSTS AND ESTATES	
Administration of Estates	(84.25)
Tax & Estate Planning	(25.00)
SKILLS	
Advocacy	(38.00)
Negotiation & Dispute Resolution	(7.00)
Legal Interviewing & Communication	(23.50)
Legal Drafting	(46.75)
Computer Literacy	(16.00)
PROFESSIONAL PRACTICE	
Legal Profession & Professional Conduct	(17.75)
PRACTICE MANAGEMENT	
Accounting & Office Management	(44.75)
Specialised Services	(3.50)

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.

■ Bachelor of Arts (GU)/Bachelor of Laws (LWJ239)

Location: Gardens Point campus/Nathan campus

Course Duration: 5 years full-time

Standard Credit Points/Full-Time Semester: 50.25

Full-Time Course Structure for Students with No Prior Knowledge of Japanese Language		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB104	Legal Research & Writing I*	4	1
A3121	Foundation Year: Japan Studies		3
A1104	Basic Japanese I		5
Year 1, Semester 2			
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB104	Legal Research & Writing I*	4	1
A3121	Foundation Year: Japan Studies		3
A1104	Basic Japanese I		5
Year 2, Semester 1			
LWB103	Torts*	12	3
LWB202	Criminal Law & Procedure*	12	3
A1219	Basic Japanese II		8
Year 2, Semester 2			
LWB103	Torts*	12	3
LWB202	Criminal Law & Procedure*	12	3
A1221	Basic Japanese III		8
Year 3, Semester 1			
LWB201	Land Law*	12	3
LWB203	Constitutional Law*	12	3
LWB301	Equity*	12	3
A1319	Intermediate Japanese I		8

* Subject extends over two semesters.

Year 3, Semester 2

LWB201	Land Law*	12	3
LWB203	Constitutional Law*	12	3
LWB301	Equity*	12	3
A1321	Intermediate Japanese II		8

Year 4, Semester 1

LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law Elective Subject	8-12	2-3
LWB401	Company Law & Partnership*	3	
A1345	Advanced Communication Skills in Japanese I OR Elective		3

Year 4, Semester 2

LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law Elective Subject	8-12	2-3
LWB401	Company Law & Partnership*	12	3
A1346	Advanced Communication Skills in Japanese II OR Elective		3

Year 5, Semester 1

LWB402	Evidence	12	3
LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II*	4	1
LWB309	Succession	8	2
A1347	Advanced Reading Skills in Japanese I OR Elective		3

Year 5, Semester 2

LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II*	4	1
	One Law Elective Subject	8-12	2-3
LWB409	Professional Conduct (5 weeks)	2	2
A1348	Advanced Reading Skills in Japanese II OR Elective		3

**Full-Time Course Structure
for Students with Prior
Knowledge of Japanese Language**
**Credit
Points**
**Contact
Hrs/Wk**
Year 1, Semester 1

LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB104	Legal Research & Writing I*	4	1
A3121	Foundation Year: Japan Studies		3
A3201	Basic Japanese Oral Communication A OR		4
A3202	Basic Japanese Oral Communication B		4

Year 1, Semester 2

LWB101	Introduction to Law*	12	3
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* Subject extends over two semesters.

LWB102	Law of Contract*	12	3
LWB104	Legal Research & Writing I*	4	1
A3121	Foundation Year: Japan Studies		3
A3201	Basic Japanese Oral Communication A OR		4
A3202	Basic Japanese Oral Communication B		4

Year 2, Semester 1

LWB103	Torts*	12	3
LWB202	Criminal Law & Procedure*	12	3
A1319	Intermediate Japanese I		8

Year 2, Semester 2

LWB103	Torts*	12	3
LWB202	Criminal Law & Procedure*	12	3
A1321	Intermediate Japanese II		8

Year 3, Semester 1

LWB201	Land Law*	12	3
LWB203	Constitutional Law*	12	3
LWB301	Equity*	12	3
A1345	Advanced Communication Skills in Japanese I One Japan Studies/Social Sciences Course+		3

Year 3, Semester 2

LWB201	Land Law*	12	3
LWB203	Constitutional Law*	12	3
LWB301	Equity*	12	3
A1340	Advanced Communication Skills in Japanese II One Japan Studies/Social Sciences Course+		3

Year 4, Semester 1

LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law Elective Subject	8-12	2-3
LWB401	Company Law & Partnership	12	3
A1347	Advanced Reading Skills in Japanese I		3

Year 4, Semester 2

LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law Elective Subject	8-12	2-3
LWB401	Company Law & Partnership	12	3
A1348	Advanced Reading Skills in Japanese II		3

Year 5, Semester 1

LWB402	Evidence	12	3
LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II*	4	1
LWB309	Succession	8	2
A3521	Advanced Japanese Project I OR Elective		2

Year 5, Semester 2

LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3

* Subject extends over two semesters.

+ See note, page 447.

LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II*	4	1
	One Law Elective Subject	8-12	2-3
LWB409	Professional Conduct (5 weeks)	2	2
A3522	Advanced Japanese Project II		2
	OR		
	Elective		

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 Program Coordinator.

Japan Studies

A1271	The Japanese Economic System	3
A1274	Problems in Modern Japanese History	3
A1275	Politics & Foreign Policy in Contemporary Japan	3
A1277	Japanese Society & Culture	3
A1279	Modern Japanese Literature	3
A1376	Industrial Relations in Japan	3
A1378	Contemporary Issues & Problems in Japanese Society	3

Social Sciences

A1240	Anthropology	3
A1244	Historiography	3
A1246	Political Science	3
A1247	Sociology	3
B1201	The Microeconomy & Economic Policy	3

Thematic Courses

A1331	Australia & Asia	3
A1341	Guided Studies Semester I	3
A1342	Guided Studies Semester II	3

■ Bachelor of Business – Accounting (UCSQ)/ Bachelor of Laws (LWJ238)

Location: Gardens Point campus

Course Duration: 5 years full-time

Standard Credit Points/Full-Time Semester: 50.25

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
51002	Introduction to Accounting		4
51004	Management & Organisational Behaviour		4
51008	Business Economics		4
LWB101	Introduction to Law*	12	3
LWB104	Legal Research & Writing I*	4	1
Year 1, Semester 2			
51103	Financial Accounting		4
75001	Computing		4
75002	Data Analysis		4
LWB101	Introduction to Law*	12	3
LWB104	Legal Research & Writing I*	4	1

* Subject extends over two semesters.

Year 2, Semester 1

51129	Market Analysis		4
51115	Company Accounting		4
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3

Year 2, Semester 2

51111	Financial Management		4
90501	Communications		4
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3

Year 3, Semester 1

51112	Business Finance		4
51113	Management Accounting		4
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	3

Year 3, Semester 2

51116	Accounting Theory		4
90502	Australia, Asia & the Pacific		4
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	4

Year 4, Semester 1

LWB201	Land Law*	12	3
LWB301	Equity*	12	3
LWB311	Administrative Law*	12	3
LWB303	Commercial Law*	12	3
	One Law Elective Subject	8-12	2-3

Year 4, Semester 2

LWB201	Land Law*	12	3
LWB301	Equity*	12	3
LWB311	Administrative Law*	12	3
LWB303	Commercial Law*	12	3
	One Law Elective Subject	8-12	2-3

Year 5, Semester 1

LWB401	Company Law & Partnership*	12	3
LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II*	4	1
LWB402	Evidence	12	3
LWB309	Succession	8	2

Year 5, Semester 2

LWB401	Company Law & Partnership*	12	3
LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II*	4	1
LWB409	Professional Conduct (5 weeks)	2	2
	One Law Elective Subject	8-12	2-3

* Subject extends over two semesters.

■ Bachelor of Laws (LWJ171)

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

Total Credit Points: 406

Standard Credit Points/Full-Time Semester: 50.75

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
LWB104	Legal Research & Writing I*	4	1
Year 1, Semester 2			
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
LWB104	Legal Research & Writing I*	4	1
MNB181	Australian National Government B	12	3
Year 2, Semester 1			
LWB201	Land Law*	12	3
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	3
LWB301	Equity*	12	3
Year 2, Semester 2			
LWB201	Land Law*	12	3
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	3
LWB301	Equity*	12	3
Year 3, Semester 1			
LWB303	Commercial Law*	12	3
LWB309	Succession	8	2
LWB311	Administrative Law*	12	3
	Two Law elective subjects	16-24	4-6
Year 3, Semester 2			
ACB382	Introductory Accounting	12	3
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	Two Law elective subjects	16-24	4-6
Year 4, Semester 1			
LWB401	Company Law & Partnership*	12	3
LWB402	Evidence	12	3
LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II*	4	1
Year 4, Semester 2			
LWB401	Company Law & Partnership*	12	3
LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB409	Professional Conduct (5 weeks)	2	2

* Subject extends over two semesters.

LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II*	4	1
	One Law elective subject	8-12	2-3

Law Electives

LWB302	Family Law	12	3
LWB305	Jurisprudence	12	3
LWB306	Local Government Law	8	2
LWB307	Insolvency Law	8	2
LWB308	Industrial Law	8	2
LWB312	Land Contracts+	12	3
LWB313	Discrimination/Equal Opportunity Law	12	3
LWB405	Solicitors' Trust Accounts	8	2
LWB406	Public International Law	12	3
LWB407	Conflict of Laws	12	3
LWB410	Trade Practices Law	12	3
LWB412	Research & Writing Project**	12	3
	Special Law Elective Subject***	12	3

** RESEARCH AND WRITING PROJECT

The Research and Writing Project is a one-semester subject offered to a student whenever the Dean of the Faculty is satisfied that sufficient academic staff with the requisite expertise is available within the Faculty to supervise and examine the Project, and that, to undertake the Project, the student has the appropriate academic record and background, and there are sufficient Law Library facilities available. Preference will be given to any student who, at the end of the seventh semester of the full-time course, or at the end of the tenth semester of the part-time course, as the case may be, has obtained, in the Law subjects in which he or she has passed, an average mark equal to or greater than that required for the award of the LLB with Honours.

The Project is a paper, normally, of 10,000-15,000 words. The paper must be submitted for examination not later than the last day of the teaching semester in which the Project is undertaken.

The Project is deemed to be a one-semester subject with three hours of formal classes a week.

*** SPECIAL LAW ELECTIVE SUBJECT

This one-semester Law subject is offered internally whenever, in the opinion of the Dean of the Faculty, sufficient academic staff with the requisite expertise in an appropriate subject other than one of those specified above are available in the Faculty, and a sufficient number of students is enrolled in the subject.

The Special Law Elective Subjects offered so far are:

		Credit Points	Contact Hrs/Wk
LWB480	Media Law	12	3
LWB481	Mineral Law	12	3
LWB482	Computers & the Law	12	3
LWB483	Medico-Legal Issues	12	3

* Subject extends over two semesters.

+ LWB312 Land Contracts shall not be studied before Land Law.

Part-Time Internal and External Course Structure

NOTE FOR EXTERNAL LLB COURSE

The non-Law subjects Introductory Accounting and Australian National Government B may be taken by enrolling in equivalent subjects at a tertiary institution other than QUT. Equivalents of certain Law subjects may be undertaken at the James Cook University. External students wishing to pursue this option must seek and be granted the approval of the Dean of the Faculty of Law.

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB104	Legal Research & Writing I*	4	1
Year 1, Semester 2			
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB104	Legal Research & Writing I*	4	1
MNB181	Australian National Government B	12	3
Year 2, Semester 1			
LWB103	Torts*	1	3
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	3
Year 2, Semester 2			
LWB103	Torts*	12	3
LWB202	Criminal Law & Procedure*	12	3
LWB203	Constitutional Law*	12	3
Year 3, Semester 1			
LWB201	Land Law*	12	3
LWB301	Equity*	12	3
	One Law elective subject	8-12	2-3
Year 3, Semester 2			
LWB201	Land Law*	12	3
LWB301	Equity*	12	3
	One Law elective subject	8-12	2-3
Year 4, Semester 1			
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law elective subject*	8-12	2-3
Year 4, Semester 2			
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
	One Law elective subject	8-12	2-3
Year 5, Semester 1			
ACB382	Introductory Accounting	12	3
LWB401	Company Law & Partnership*	12	3
	One Law elective subject	8-12	2-3

* Subjects extends over two semesters.

Year 5, Semester 2

LWB309	Succession	8	2
LWB401	Company Law & Partnership*	12	3
LWB402	Evidence	12	3

Year 6, Semester 1

LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II*	4	1

Year 6, Semester 2

LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB409	Professional Conduct (5 weeks)	2	2
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II*	4	1

The Law elective subjects will be offered as follows:

First Semester**DAY CLASSES**

Solicitors' Trust Accounts
Local Government Law
Insolvency Law
Industrial Law
Jurisprudence
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

Second 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

Solicitors' 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.

* Subjects extends over two semesters.

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 a weighted average of 75 per cent or more will qualify for the award of First Class Honours; a student with a weighted average of 70-74.99 per cent will qualify for the award of Second Class Honours, Division A; and a student with a weighted average of 65-69.99 per cent will qualify for the award of Second Class Honours, Division B.

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
Year 1, Semester 1			
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
LWB104	Legal Research & Writing I+	4	1
LWB202	Criminal Law & Procedure*	12	3
Year 1, Semester 2			
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
LWB104	Legal Research & Writing I+	4	1
LWB202	Criminal Law & Procedure*	12	3
Year 2, Semester 1			
LWB201	Land Law*	12	3
LWB203	Constitutional Law*	12	3
LWB301	Equity*	12	3
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
Year 2, Semester 2			
LWB201	Land Law*	12	3
LWB203	Constitutional Law*	12	3
LWB301	Equity*	12	3
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3
Year 3, Semester 1			
LWB309	Succession	8	2
LWB401	Company Law & Partnership*	12	3

* Subject extends over two semesters.

+ Subjects LWB104 Legal Research and Writing I and LWB415 Legal Research and Writing II may be studied as optional subjects – they are not required subjects of the LLB course for graduates.

LWB402	Evidence	12	3
LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II+	4	1
	One Law elective subject	8-12	2-3

Year 3, Semester 2

LWB401	Company Law & Partnership*	12	3
LWB403	Taxation Law*	12	3
LWB404	Civil Procedure*	12	3
LWB409	Professional Conduct (5 weeks)	2	2
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II+	4	1
	Two Law elective subjects	16-24	4-6

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.

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
LWB104	Legal Research & Writing I+	4	1
Year 1, Semester 2			
LWB101	Introduction to Law*	12	3
LWB102	Law of Contract*	12	3
LWB103	Torts*	12	3
LWB104	Legal Research & Writing I+	4	1
Year 2, Semester 1			
LWB201	Land Law*	12	3
LWB202	Criminal Law & Procedure*	12	3
LWB301	Equity*	12	3
Year 2, Semester 2			
LWB201	Land Law*	12	3
LWB202	Criminal Law & Procedure*	12	3
LWB301	Equity*	12	3
Year 3, Semester 1			
LWB203	Constitutional Law*	12	3
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3

* Subject extends over two semesters.

+ Subjects LWB104 Legal Research and Writing I and LWB415 Legal Research and Writing II may be studied as optional subjects – they are not required subjects of the LLB course for graduates.

Year 3, Semester 2

LWB203	Constitutional Law*	12	3
LWB303	Commercial Law*	12	3
LWB311	Administrative Law*	12	3

Year 4, Semester 1

LWB401	Company Law & Partnership*	12	3
LWB403	Taxation Law*	12	3
	One Law elective subject	8-12	2-3

Year 4, Semester 2

LWB401	Company Law & Partnership*	12	3
LWB403	Taxation Law*	12	3
LWB309	Succession	8	2
	One Law elective subject	8-12	2-3

Year 5, Semester 1

LWB404	Civil Procedure*	12	3
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II+	4	1
	One Law elective subject	8-12	2-3

Year 5, Semester 2

LWB402	Evidence	12	3
LWB404	Civil Procedure*	12	3
LWB409	Professional Conduct (5 weeks)	2	2
LWB414	Drafting & Legal Transactions*	8	2
LWB415	Legal Research & Writing II+	4	1

Kelvin Grove campus

Course Structures

■ Bachelor of Arts – Justice Studies (BAJS)#

Location: Kelvin Grove campus

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

Total Credit Points: 288

Standard Credit Points/Full-time Semester: 48

Course Coordinator: Dr Simon Petrie

The details of this new course are not available at the time of the production of the Handbook. Information will be available to commencing students with the offer of admission. Other enquiries may be directed to the Faculty of Law office.

* Subject extends over two semesters.

+ Subjects LWB104 Legal Research and Writing I and LWB415 Legal Research and Writing II may be studied as optional subjects – they are not required subjects of the LLB course for graduates.

Offered subject to final approval.

Kedron Park campus

Course Structures

■ Associate Diploma of Business – Court and Parliamentary Reporting (ADSC)

Location: Kedron Park campus

Course Duration: 2 years full-time

Total Credit Points: 192

Course Coordinator: Ms Christina Hindmarsh

Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
AD1008	Written English	12	4
LW1002	The Legal Process	12	4
RP1026	Reporting 1	24	10
Year 1, Semester 2			
AD1009	Written & Spoken English	12	4
RP1027	Reporting 2	36	14
Year 2, Semester 1			
AD1004	Introduction to Management	12	4
RP1028	Reporting 3	36	16
Year 2, Semester 2			
EC1006	Political Economy of Australia	12	4
RP1025	Workplace Experience	12	6
RP1029	Reporting 4	24	12

FACULTY OF SCIENCE

FACULTY OF SCIENCE

Gardens Point campus

Course Structures

■ Master of Applied Science (ASN273)

Location: Gardens Point campus

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 master 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 I and Stage II, including submission of the thesis for examination as required in Stage II, 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 I (96 credit points)

- (i) students with GPA < 5 will normally graduate with a GradDipAppSc while
- (ii) 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.

- 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 II if a full-time student, or twenty-four months if a part-time student. Exemption from all or part of Stage I 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 commencement of Stage II 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.

■ Master of Applied Science with Majors in Medical Physics and Medical Ultrasound (PHN176)

Location: Gardens Point campus

Course Duration: 2 years full-time or 4 years part-time (plus Summer School)

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Coordinator for Medical Physics Major: Dr T. Van Doorn

Coordinator for Medical Ultrasound Major: Assoc. Professor Brian J. Thomas

Assistant Coordinator for Medical Ultrasound Major: Ms Margo Harkness

Entry Requirements

To be eligible to enrol for the Medical Physics Major, an applicant must have completed an acceptable tertiary course with a major in Physics.

Applicants with other qualifications (eg, 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 Major, 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 (eg, 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 MAJOR

To complete Stage I, students must complete subjects selected from the list below, totalling 96 credit points. Subjects MSN158, PHN157, PHN257, PHN357, PHN352, PHN354, PHN155, PHN156 are not available to students in the Medical Physics Major.

MEDICAL ULTRASOUND MAJOR

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 Major. Subject PHN402 is not available to students in the Medical Ultrasound Major.

For both majors, 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:

- (i) students with GPA <5 will normally graduate with a GradDipAppSc (Medical Physics or Medical Ultrasound); while
- (ii) 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
First Semester			
PHN101	Analogue Electronics	6	2
PHN102	Introduction to Medical Statistics & Computing	6	2
PHN103	Radiation Physics I	6	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	
PHN407	Case Studies*	6	2
Second Semester			
PHN301	Microprocessors	8	3
PHN302	Instrumentation	8	3
PHN304	Medical Imaging Science	6	2
PNN165	Anatomy & Physiology II	8	3
PHN152	Cross-sectional Anatomy	6	2
PHN153	Ultrasound Equipment I	6	2
PHN154	Principles of Ultrasound Imaging	6	2
MSN158	Ultrasonic Pathology	6	2
PHN155	Ultrasonic Examination in Obstetrics/Gynaecology	6	2
PHN156	Ultrasonic Examination of the Abdomen	6	2
PHN402	Radiotherapy	6	2
PHN157	Clinical Ultrasound I*	12	
PHN405	Physiological Measurement	6	2
PHN407	Case Studies*	6	2
Summer School (10 weeks)			
PHN257	Clinical Ultrasound II*	12	

* No formal class attendance required.

The three subjects PHN157, PHN257 and PHN357 are compulsory for students in the Medical Ultrasound Major. Each subject involves 240 hours of clinical experience and students must successfully complete these subjects in the order PHN157, PHN257 and PHN357.

Stage II

PHN520	Project*
PHN540	Project+

Credit Points

48 per semester
24 per semester

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 Major are accepted in February each year. Enrolments in the Medical Ultrasound Major are accepted in July each year.

Medical Ultrasound students undertake Stage I Second Semester subjects in their first semester of enrolment, and Stage I First Semester subjects in their second semester of enrolment.

■ Master of Health Science – Medical Laboratory Science (HSN257)

Location: Gardens Point campus

Course Duration: 3 years part-time

Total Credit Points: 144

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Miss Pam Stallybrass

Entry Requirements

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 Coordinator to establish suitability for entrance into the course.

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.

* Subject extends over two semesters.

+ Subject extends over four semesters.

Special Course Requirement

There is a student intake into the Medical Laboratory Science Major every second year.

It is expected that there will be an intake into the part-time course in 1991.

Students should consult the Course Coordinator regarding their programs.

Students must select two disciplinary specialisation electives in Year 3, Semesters 1 and 2.

The project (dissertation) is carried out in the laboratory. The employer's written permission is required.

Part-Time Course Structure

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

■ Graduate Diploma in Applied Science (ASM285)

No enrolments are accepted directly into this course.

For details see Course Rules for Master of Applied Science (ASN273) (paragraph 4.2).

■ Graduate Diploma in Applied Science with Majors in Medical Physics and Medical Ultrasound (PHM271)

No enrolments are accepted directly into this course.

For details see Course Rules for Master of Applied Science with majors in Medical Physics and Medical Ultrasound (PHN176).

■ Graduate Diploma in Biotechnology (MSM245)

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Dr Peter Timms

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			
MSB530	Introductory Molecular Biology	10	5
MSP146	Project*	6	3
MSB521	Biochemical Separations	10	4
MSP120	Advanced Genetic Engineering	10	5
MSP127	Topics in Biotechnology	4	1
	Elective	8-10	4
Semester 2			
CHP120	Biochemical Engineering	10	6
MSB630	Genetic Engineering	10	5
MSP146	Project*	16	3
MSP105	Molecular Diagnosis of Disease	10	4
MSB620	Biochemistry VI	12	5

* Subject extends over two semesters.

Part-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MSB530	Molecular Biology	10	5
MSB521	Biochemical Separations	10	4
Year 1, Semester 2			
MSB630	Genetic Engineering	10	5
CHP120	Biochemical Engineering	10	6
MSP127	Topics in Biotechnology	4	1
Year 2, Semester 1			
MSP120	Advanced Genetic Engineering	10	5
MSP146	Project*	6	3
	Elective	8-10	4
Year 2, Semester 2			
MSB620	Biochemistry VI	12	5
MSP105	Molecular Diagnosis of Disease	10	4
MSP146	Project*	16	3
MSP128	Topics in Biotechnology II	2	1

Note

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.

■ Bachelor of Applied Science (Honours) (ASJ247)

From 1991 fourth year honours programs in Geology, Biology+ and Chemistry+ will be available following completion of the multidisciplinary Bachelor of Applied Science degree course. Other major strands are proposed to be offered in 1992.

Location: Gardens Point campus

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

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Coordinator for Biology Major: Dr Alan Bailey

Coordinator for Chemistry Major: Assoc. Professor Stan Dyke

Coordinator for Geology Major: Assoc. Professor David Gust

Entry Requirements

To be eligible for admission, students should have completed QUT's Bachelor of Applied Science or equivalent and should have attained a Grade Point Average (GPA) of at least 5.0 over that degree, including grades of at least credit in all subjects directly relevant to the proposed honours program. Application for admission should normally be made at the end of the final year of the pass degree, or within 18 months of completing that degree.

* Subject extends over two semesters.

+ Subject to final approval.

Applicants who do not satisfy the above conditions but who have demonstrated outstanding performance in only the final year of a degree, or whose application is based on other factors including work experience or involvement in research, may be admitted at the discretion of the Dean.

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	28 credit points (min)
Complementary Studies	16 credit points (max)
Project	48 credit points (max)

	Credit Points	Contact Hrs/Wk
Subjects in course:		
IFN001 Information Retrieval Skills	4	4
ASP702 Complementary Studies*	16	6
ESP700 Project* (Geology major)	40	
BEP700 Project* (Biology major)	40	
CHP700 Project* (Chemistry major)	40	

Advanced Topics selected from:

BIOLOGY MAJOR

ASP703 Studies in Global Systems A	9	3
ASP704 Studies in Global Systems B	6	2
ASP705 Advanced Microscopy Techniques	9	4
BEP721 Advanced Plant Physiology & Biochemistry	9	4
BEP793 Data Handling, Interpretation & Biometrics	9	4
BEP704 Advanced Studies in Population Management	9	4
ESP701 Biogeography, Paleocology & Evolution	9	4

CHEMISTRY MAJOR

Mandatory subjects:

CHP701 Advanced Topics in Chemistry I	12	6
CHP702 Advanced Topics in Chemistry II	12	6

plus selection from:

CHP120 Biochemical Engineering	10	6
CHP703 Advanced Analysis	6	2
CHP704 Advanced Materials Science B	6	2
CHP705 Advanced Spectroscopy	6	2
CHP706 Advanced Chemical Technology	6	2

GEOLOGY MAJOR

ESP702 Geology Case Studies	10	3
ESP704 Advanced Sedimentary & Environmental Geology	6	2
ESP705 Advanced Resource Geology	6	2
ESP706 Advanced Engineering Geology	6	2
ESP707 Petrochemistry	6	2
ESP708 Global Plate Tectonics	6	2

* Subject extends over two semesters.

Policy on Credit Transfer, Relating to Bachelor-Level Courses in the Faculty of Science

FROM INCOMPLETE BACHELOR-LEVEL SCIENCE COURSES

Students transferring to a bachelor's degree course offered by the Faculty of Science at QUT from a comparable, partially completed course in a recognised institution may be granted credit towards the QUT award. In general, credit will be granted pro rata; for example, 96 credit points of credit normally will be granted for each year of full-time study (or its equivalent) completed successfully at the other institution. The maximum credit which may be granted is 192 credit points.

Each application for credit towards a Faculty of Science award will be considered individually, on its merits. Students who have completed successfully a year or more of full-time study (or its equivalent) at another institution nevertheless may be required to undertake specific first-level subjects at QUT. Also, to satisfy the relevant QUT degree rules, some students may have to gain credit totalling more than 288 credit points.

FROM COMPLETED ASSOCIATE DIPLOMA COURSES

Students entering a bachelor's degree course offered by the Faculty of Science at QUT following successful completion of a relevant Associate Diploma course from a recognised institution may be granted credit towards the QUT award. The maximum credit which may be granted is 96 credit points.

Unless the Dean determines otherwise, the credit will be granted as provisional credit. To have the credit confirmed, the student undertakes in the QUT course a program of study of at least 48 credit points and attains a Grade Point Average of not less than 4.0. If, at the conclusion of such a course of study, the student's Grade Point Average is less than 4.0, the Dean shall determine both the extent to which credit granted conditionally may be retained and the student's subsequent program of study in the course.

■ Bachelor of Applied Science (Honours) with Major in Biomedical Science (MSJ274)

Location: Gardens Point campus

Course Duration: 1 year full-time

Total Credit Points: 96

Standard Credit Points/Full-Time Semester: 48

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Semester 1			
MSP125	Project*	5	
MSP123	Readings in Biomedical Science I	25	1
MSP121	Research Strategies I	8	3
and 10 credit points from one of the following:			
MSB530	Molecular Biology	10	5
MSP120	Advanced Genetic Engineering	10	6
MSB521	Biochemical Separations	10	4
MSP104	Analytical Electron Microscopy	10	5

or another subject approved by Head of Department.

* Subject extends over two semesters.

Semester 2

MSP125	Project*	5	
MSP124	Readings in Biomedical Science II	25	1
MSP122	Research Strategies II	8	3

and 10 credit points from one of the following:

MSP105	Molecular Diagnosis of Disease	10	4
MSB630	Genetic Engineering	10	5
MSB621	Analytical Biochemistry	10	4
CHP120	Biochemical Engineering	10	6

or another subject approved by Head of Department.

■ Bachelor of Applied Science with Majors in Biology, Chemistry, Microbiology/Biochemistry, Geology, Mathematics, Physics (ASJ226)

Location: Gardens Point campus

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

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: 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 comprising 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 effecting 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 page 478 for details). Specified supporting subjects are required in some areas, especially at first level (see Specification of Majors Table below).

* Subject extends over two semesters.

5. Major and sub-major studies are defined in terms of the discipline and the academic level at which subjects are offered:

- (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. Cooperative Education Option – one year's paid training in industry.

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 Cooperative Education Program Coordinator, undertake the Cooperative Education option.

This involves 10-12 months of paid full-time employment in an approved industrial/commercial environment during which time the student is enrolled in the subjects ASB300 Cooperative Education I (first semester) and ASB400 Cooperative Education II (second semester). On completion of the approved Cooperative Education placement the student resumes formal studies.

Subject Schedules

Pre- and co-requisite subjects and incompatible subjects are shown in the Subject Synopses.

First Schedule - First Level Subjects		Semester Offered	Credit Points	Contact Hrs/Wk
BIOLOGY SUBJECTS				
BEB103	Biology IA	1	8	3
BEB104	Biology IB	1	6	3
BEB201	Cell Biology	2	8	3
BEB207	Biological Systems	2	8	3
CHEMISTRY SUBJECTS				
CHB101	Chemistry IA	1	8	3
CHB102	Chemistry IB	1,2	6	3
CHB201	Chemistry IIA	2	8	3
CHB202	Chemistry IIB	2	6	3
GEOLOGY SUBJECTS				
ESB101	Earth Science IA	1	8	3
ESB102	Earth Science IB	1	8	3
ESB201	Historical Geology	2	8	3
ESB220	Principles of Mineralogy	2	8	3
MATHEMATICS SUBJECTS				
MAB211	Mathematics IA	1,2	8	3
MAB216	Discrete Mathematics	1	8	3

MAB224	Mathematics IB	1,2	8	3
MAB225	Mathematics IC	2	8	3
MAB226	Mathematics ID	2	8	3
MAB227	Statistics	1,2	8	3

MICROBIOLOGY/BIOCHEMISTRY SUBJECTS

MSB101	Microbiology I	2	6	3
PNB131	Anatomy I	1	6	3
PNB132	Anatomy II	2	6	3
PNB163	Human Anatomy I	2	8	3
PNB220	Systematic Anatomy	2	10	3

PHYSICS SUBJECTS

PHB110	Physics IA	1	8	3
PHB111	Physics IB	1	8	3
PHB210	Physics IIA	2	8	3
PHB211	Physics IIB	2	8	3

OTHER SUBJECTS

ASB101	Study Support Skills*	1	2	1
ASB200	Introductory Meteorology	2	8	3
BEB149	Introductory Biology	1	6	3
CHB001	Introductory Chemistry	1	6	3
CMB106	Professional Communication	1,2	6	3
CSB155	Introduction to Computing	1,2	8	3
CSB283	Scientific Applications	2	9	3
MAB110	Introductory Mathematics	1	6	3
MNB154	Psychology	1,2	12	3
PHB104	Introductory Physics	1	6	3
SVB103	Mapping & Surveying for Field Scientists	2	8	3

and such other subjects as may be approved by the Faculty of Science Academic Board from time to time.

Second Schedule - Second Level Subjects		Semester Offered	Credit Points	Contact Hrs/Wk
BEB303	Biology II	2	16	6
BEB321	Plant Physiology	1	8	3
BEB324	Crop Science I	1	8	3
BEB357	Populations & Systems Ecology	1	8	3
BEB358	Experimental Design	1	8	3
BEB366	Biology & Soils	1	8	3
BEB388	Aquaculture	1	8	3
BEB390	Field Studies I	2	8	3
BEB411	Animal Physiology	2	8	3
BEB423	Plant Tissue Culture I	2	8	3
BEB429	Vegetation Studies	2	8	3
BEB435	Genetics	2	8	3
BEB444	Population Analysis	2	8	3
CHB310	Analytical Chemistry III	1,2	8	4
CHB327	Chemical Technology III	1	6	3
CHB340	Spectroscopy	1,2	8	3
CHB351	Organic Chemistry IIIC	1	8	4
CHB371	Physical Chemistry IIIC	1	8	4
CHB411	Environmental Analytical Chemistry	2	8	4
CHB427	Chemical Technology IV	2	8	4
CHB430	Inorganic Chemistry IV	2	8	3
CHB440	Separation Methods	2	8	3
CHB451	Organic Chemistry IVC	2	8	3
CHB471	Physical Chemistry IVC	2	8	3

* This subject must be undertaken by all students unless exemption has been granted.

ESB311	Management of Earth Resources	1	8	3
ESB317	Optical Mineralogy & Mineragraphy	1	8	3
ESB357	Structural Geology	1	8	3
ESB367	Economic Mineral Deposits	1	8	3
ESB377	Land Law & Mining Applications	1	8	3
ESB397	Field Techniques	1	8	3
ESB403	Geochemistry	2	8	3
ESB417	Petrography	2	8	3
ESB437	Geophysics	2	8	3
ESB453	Applied Geomorphology	2	8	3
ESB487	Geological Field Studies	2	8	3
ESB497	Sedimentology	2	8	3
MAB409	Modern Algebra	1,2	10	3
MAB410	Linear Algebra A	1,2	10	3
MAB411	Mathematics IIA	1	10	3
MAB412	Mathematics IIB	1	10	3
MAB417	Mathematical Statistics A	1,2	10	3
MAB418	Mathematical Statistics B	1,2	10	3
MAB425	Mathematics IIC	2	10	3
MAB442	Financial Mathematics	1,2	10	3
MSB310	Biochemical Methodology III	1	8	4
MSB408	Virology IV	2	8	4
MSB410	Biochemical Methodology IV	2	8	4
MSB412	Immunology IV	2	8	4
MSB415	Biochemistry III	1,2	10	5
MSB416	Biochemistry IV	1,2	10	5
MSB421	Electron Microscopy	1	6	3
MSB450	Microbiology III	1	6	3
MSB454	Microbiology IV	1,2	8	4
MSB473	Biochemistry III	1	6	3
MSB474	Biochemistry IV	2	6	3
PHB308	Electronics I	1	8	3
PHB310	Wave Theory & A.C. Circuits	1	8	3
PHB311	Optics & Acoustics	1	8	3
PHB312	Physical Properties of Materials	1	8	3
PHB316	Experimental Physics III	1	8	3
PHB401	Thermal & Vacuum Physics	2	8	3
PHB402	Relativity & Radiation Physics	2	8	3
PHB405	Instrumentation	2	8	3
PHB408	Electronics II	2	8	3
PHB411	Astronomy	2	8	3
PHB416	Experimental Physics IV	2	12	6
PNB165	Physiology II	1,2	8	4
PNB305	Human Nutrition I	1	6	3
PNB405	Human Nutrition II	2	6	3
PNB231	Anatomy & Physiology I*	1,2	8	4
PNB232	Anatomy & Physiology II*	1,2	8	4
PNB465	Physiology III	1,2	8	4

such other subjects as may be approved by the Faculty of Science Academic Board from time to time.

Third Schedule - Third Level Subjects

Third Schedule - Third Level Subjects		Semester Offered	Credit Points	Contact Hrs/Wk
BEB447	Environmental Monitoring	1	8	3
BEB490	Field Studies II	1	8	3
BEB500	Selected Topics I	1	8	3
BEB523	Plant Tissue Culture II	1	12	5

* Students wishing to undertake studies in Nutrition will be required to pursue alternative physiology subjects.

BEB535	Population Genetics	1	8	3
BEB560	Projects I	1	16	6
BEB563	Biological Resources	2	8	3
BEB588	Aquaculture II	1	8	3
BEB600	Selected Topics II	2	8	3
BEB621	Plant Physiology II	2	8	3
BEB653	Population Management	2	8	3
BEB655	Case Studies	2	12	5
BEB660	Projects II	2	16	6
BEB680	Hydrobiology & Aquaculture	2	8	3
CHB510	Instrumental Analysis	1	8	4
CHB527	Chemical Technology V	1	8	4
CHB530	Inorganic Chemistry V	1	8	3
CHB551	Organic Chemistry VC	1	8	3
CHB571	Physical Chemistry VC	1	8	3
CHB590	Materials Science	1	8	3
CHB600	Project	2	20	10
CHB610	Advanced Analysis	2	4	2
CHB627	Chemical Technology VI	2	4	2
CHB628	Energy Technology	2	6	3
CHB631	Advanced Inorganic Chemistry	2	8	3
CHB641	Advanced Spectroscopy	2	8	3
CHB651	Biological Chemistry	2	8	3
CHB660	Industrial Visits	2	2	1
CHB671	Solids & Surfaces	2	8	3
CHB690	Advanced Materials Science	2	8	3
CHB691	Environmental Chemistry	2	8	3
ESB517	Mineral Exploration	1	8	3
ESB520	Applied Geochemistry	1	8	3
ESB537	Applied Geophysics	1	8	3
ESB547	Igneous & Metamorphic Petrology	1	8	3
ESB557	Petroleum Geology	1	8	3
ESB577	Field Excursion	1	8	3
ESB607	Coal Geology	2	8	3
ESB617	Mining Geology	2	8	3
ESB627	Hydrogeology	2	8	3
ESB647	Structural Geology & Geotectonics	2	8	3
ESB653	Engineering Geology	2	8	3
ESB677	Field Excursion	2	8	3
ESB687	Geological Investigations	2	8	3
ESB697	Mining Feasibility Studies	2	8	3
MAB710	Linear Algebra B	2	10	3
MAB718	Numerical Analysis A	1,2	10	3
MAB719	Numerical Analysis B	2	10	3
MAB735	Mechanics	1	10	3
MAB737	Operations Research A	1,2	10	3
MAB738	Operations Research B	1,2	10	3
MAB741	Actuarial Mathematics	1	10	3
MAB782	Field Theory	2	10	3
MAB788	Mathematical Statistics	1,2	10	3
MSB510	Food Microbiology	1	8	3
MSB511	Microbial Physiology & Metabolism V	1	10	4
MSB512	Virology V	1	8	3
MSB520	Biochemistry V	1	12	5
MSB521	Biochemical Separations	1	10	4
MSB530	Introductory Molecular Biology	1	10	5
MSB610	Microbial Technology	2	10	5
MSB611	Applied Microbiology	2	10	4
MSB620	Biochemistry VI	2	12	5
MSB621	Analytical Biochemistry	2	10	4
MSB630	Genetic Engineering	2	10	5
MSB712	Immunology V	1	8	4

PHB501	Applied Quantum Mechanics	1	8	3
PHB502	Electromagnetic Field Theory	1	8	3
PHB508	Electronics III	1	8	3
PHB510	Physical Methods of Analysis	1	8	3
PHB516	Experimental Physics V	1	12	6
PHB601	Solid State Physics	2	8	3
PHB602	Nuclear Physics & Energy	2	8	3
PHB608	Applied Acoustics	2	8	3
PHB609	Applied Radiation Physics	2	8	3
PHB613	Biophysics	2	8	3
PHB616	Project	1,2	16	6
PHB620	Topics in Physics	2	8	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 Cooperative Education Option at the discretion of the Course Coordinator. During this period, the student should enrol in the following subjects:

ASB300	Cooperative Education I
ASB400	Cooperative Education II

Specification of Majors Table

Detailed information concerning the specification of majors is available from the Faculty office.

The credit points (#) specified are minima; 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	First Level	Second & Third Levels
Biology (136#)	(i) 30# of biology subjects. (ii) Required supporting subjects: • 16# of mathematics subjects, including Statistics. • 8# of computing. • 14# of chemistry.	106# of biology subjects, including at least 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 at least 48# from the third schedule.
Microbiology/ Biochemistry (136#) [See also Note 6]	(i) 6# of microbiology subjects. (ii) Required supporting subjects: • 14# of biology subjects. • 24# of subjects from mathematics and computing. • 28# of chemistry subjects.	At least 104# of microbiology and biochemistry subjects, including at least 48# 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 at least 48# from the third schedule.
Mathematics (136#)	(i) 32# of mathematics subjects. (ii) 8# of computing subjects.	104# of mathematics subjects, including at least 48# from the third schedule.
Physics (136#) [See also Note 6] 32# of mathematics	(i) 32# of physics subjects. (ii) Required supporting subjects: (ii) 20# of mathematics subjects, including Statistics. • 8# of computing.	(i) 104# of physics, including at least 48# from the third schedule.

Course Requirements Notes

- Subjects are presented as units, usually of one semester's duration.
- 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 classifying other subjects not listed here, 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.
- Sub-major studies and supporting studies may be selected (subject to prerequisite and timetabling constraints) from any approved area within the University.
- 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.
- Supporting studies are subjects selected in order to
 - complete the required number of credit points (see Requirement 1);
 - satisfy prerequisite or co-requisite requirements;
 - satisfy general requirements for first level programs as indicated in Specification of Majors Table;
 - increase the scope of the program (eg, for a teaching career) by the inclusion of specific skills or additional content.
- 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.
- Detailed information concerning the specification of majors and sub-majors is available from the Faculty office or from an academic adviser.

■ Bachelor of Applied Science – Applied Chemistry (CHJ129)

Location: Gardens Point campus

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

Total Credit Points: 314

Standard Credit Points/Full-Time Semester: 52.33

Course Coordinator: Mr Eric O'Reilly

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
CHB110	Analytical Chemistry I	6	3
CHB150	Organic Chemistry I	8	4
CHB180	Physical & Inorganic Chemistry I	8	4
MAB211	Mathematics IA	8	3
PHB110	Physics IA	8	3
PHB111	Physics IB	8	3
CMB106	Professional Communication	6	3
ASB101	Study Support Skills	2	1
Year 1, Semester 2			
CHB210	Analytical Chemistry II	6	3
CHB230	Inorganic Chemistry II	6	3
CHB250	Organic Chemistry II	8	4
CHB270	Physical Chemistry II	8	4
MAB224	Mathematics IB	8	3
PHB260	Physics IIG	8	4
Elective subject for Major (one only)*			
MSB101	A Microbiology I	6	3
OR			
CSB155	B Introduction to Computing	8	3
OR			
ESB220	C Mineralogy	8	3
Year 2, Semester 1			
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 (Majors A and C)+	6	2
OR			
CSB281	Computer Systems I (Major B)	12	3
Elective subject for Major*			
MSB473	A Biochemistry III	6	3
OR			
PHB308	B Electronics I	8	3
OR			
ESB311	C Management of Earth Resources	8	3

* Elective Major is indicated by A Biochemistry/ Microbiology, B Computing/ Electronics, or C Geology.

+ Students who elect to study elective Major B Computing/ Electronics are required to study CSB281 rather than CSB262. Students electing Majors A or C study CSB262.

Year 2, Semester 2

CHB427	Chemical Technology IV	8	4
CHB430	Inorganic Chemistry IV	8	3
CHB440	Separation Methods	8	3
CHB450	Organic Chemistry IV	8	4
CHB470	Physical Chemistry IV	8	4
MAB227	Statistics	8	3
	Elective subject for major*		
MSB474	A Biochemistry IV	6	3
	OR		
PHB408	B Electronics II	8	3
	OR		
ESB403	C Geochemistry	8	3

Year 3, Semester 1

CHB510	Instrumental Analysis	8	4
CHB527	Chemical Technology V	8	4
CHB530	Inorganic Chemistry V	8	3
CHB550	Organic Chemistry V	8	4
CHB570	Physical Chemistry V	8	4
CHB590	Materials Science	8	3
	Elective subject for Major*		
MSB450	A Microbiology III	6	3
	OR		
PHB508	B Electronics III	8	3
	OR		
ESB520	C Applied Geochemistry	8	3

Year 3, Semester 2

CHB600	Project	20	10
CHB610	Advanced Analysis	4	2
CHB627	Chemical Technology VI	4	2
CHB640	Chemistry VI	4	2
CHB660	Industrial Visits	2	1
MNB040	Management	4	1
	Chemistry Elective		
CHB628	Energy Technology	6	3
	OR		
CHB690	Advanced Materials Science or other approved chemistry elective	8	3
	Elective subject for Major*		
MSB454	A Microbiology IV	8	4
	OR		
CHB618	B Laboratory Automation	8	3
	OR		
ESB417	C Petrography	8	3

Cooperative 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 Cooperative Education Program Coordinator, undertake the Cooperative 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 subjects ASB300 Cooperative Education I (first semester) and ASB400 Cooperative Education II (second semester). On completion of the approved industrial experience the student resumes formal studies.

* Elective Major is indicated by A Biochemistry/Microbiology, B Computing/Electronics, or C Geology.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
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
Year 1, Semester 2			
CHB150	Organic Chemistry I	8	4
CMB106	Professional Communication	6	3
MAB211	Mathematics IA	8	3
Year 2, Semester 1			
CHB230	Inorganic Chemistry II	6	3
CHB250	Organic Chemistry II	8	4
MAB224	Mathematics IB	8	3
Year 2, Semester 2			
CHB270	Physical Chemistry II	8	4
PHB260	Physics IIG	8	4
	Elective subject for Major*		
MSB101	A Microbiology I	6	3
	OR		
CSB155	B Introduction to Computing	8	3
	OR		
ESB220	C Mineralogy	8	3
Year 3, Semester 1			
CHB370	Physical Chemistry III	8	4
CHB430	Inorganic Chemistry IV	8	3
CSB262	Computing (Major A and C) +	6	2
	OR		
CSB281	Computer Systems I (Major B)	12	3
	Elective subject for Major*		
MSB473	A Biochemistry III	6	3
	OR		
PHB308	B Electronics I	8	3
	OR		
ESB311	C Management of Earth Resources	8	3
Year 3, Semester 2			
CHB310	Analytical Chemistry III	8	4
CHB340	Spectroscopy	8	3
CHB350	Organic Chemistry III	8	4
Year 4, Semester 1			
CHB327	Chemical Technology III	6	3
CHB450	Organic Chemistry IV	8	4
CHB470	Physical Chemistry IV	8	4
Year 4, Semester 2			
CHB427	Chemical Technology IV	8	4
CHB440	Separation Methods	8	3
MAB227	Statistics	8	3
	Elective subject for Major*		

* Elective Major is indicated by A Biochemistry/ Microbiology, B Computing/ Electronics, or C Geology.

+ Students who elect to study elective Major B Computing/ Electronics are required to study CSB281 rather than CSB262. Students electing Majors A or C study CSB262.

MSB474	A Biochemistry IV	6	3
	OR		
PHB408	B Electronics II	8	3
	OR		
ESB403	C Geochemistry	8	3

Year 5, Semester 1

CHB550	Organic Chemistry V	8	4
CHB570	Physical Chemistry V	8	4
	Elective subject for Major*		
MSB450	A Microbiology III	6	3
	OR		
PHB508	B Electronics III	8	3
	OR		
ESB520	C Applied Geochemistry	8	3

Year 5, Semester 2

CHB527	Chemical Technology V	8	4
CHB530	Inorganic Chemistry V	8	3
CHB590	Material Science	8	3
	Elective subject for Major*		
MSB454	A Microbiology IV	8	4
	OR		
CHB618	B Laboratory Automation	8	3
	OR		
ESB417	C Petrography	8	3

Year 6, Semester 1

CHB510	Instrumental Analysis	8	4
CHB601	Project+	10	4
CHB627	Chemical Technology VI	4	2
CHB640	Chemistry VI	4	2

Year 6, Semester 2

CHB610	Advanced Analysis	4	2
CHB601	Project*	10	6
CHB660	Industrial Visits	2	1
MNB040	Management	4	1
	Chemistry Elective *#		
CHB628	Energy Technology	6	3
	OR		
CHB690	Advanced Material Science	8	3
	OR		
	other approved chemistry elective		

■ Bachelor of Applied Science – Mathematics (MAJ133)

Location: Gardens Point campus

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

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Cliff Bothwell

* Elective Major is indicated by A Biochemistry/ Microbiology, B Computing/Electronics, or C Geology.

+ Subject extends over two semesters.

It is not intended that all Chemistry Elective units will be offered. Those units offered in any one year will be determined by student demand.

Course Requirements

A student selects subjects from the list given below, having regard to specified prerequisites and co-requisites, and must complete:

- (a) all 14 mandatory subjects;
- (b) at least 14 subjects above first year level;
- (c) at least 48 credit points in mathematics subjects above second year level;
- (d) a minimum of 288 credit points.

		Semester Offered	Credit Points	Contact Hrs/Wk
FIRST YEAR LEVEL				
MAB301	Calculus & Analysis A*	1,2	10	3
MAB302	Calculus & Analysis B*	1,2	10	3
CSB155	Introduction to Computing*	1,2	8	3
ISB493	Business Computer Programming*	1,2	12	3
MAB309	Modern Algebra*	1,2	10	3
MAB310	Linear Algebra*	1,2	10	3
MAB317	Mathematical Statistics I*	1,2	10	3
MAB318	Mathematical Statistics IIA*	1,2	10	3
MAB331	Introductory Vector Analysis*	1,2	10	3
MAB342	Mathematics of Finance*	1,2	10	3
CMB104	Professional Communication	1,2	9	3
	First year elective subjects*		8-12	3-6
	First year elective subjects*		8-12	3-6
	First year elective subjects		8-12	3-6
	First year elective subjects		8-12	3-6
SECOND YEAR LEVEL				
MAB601	Multivariable Calculus A	1	10	3
MAB612	Differential Equations*	2	10	3
MAB602	Multivariable Calculus C	2	10	3
CSB281	Computer Systems I	1	12	4
MAB608	Mathematical Statistics IIB	1,2	10	3
MAB610	Applied Linear Algebra	2	10	3
MAB618	Numerical Analysis I	1,2	10	3
MAB619	Numerical Analysis II	1	10	3
MAB637	Operations Research IA	2	10	3
MAB638	Operations Research IB	2	10	3
MAB635	Classical Theoretical Mechanics	1	10	3
MAB641	Actuarial Mathematics	1	10	3
	Second year elective subjects	8-12	3-9	
	Second year elective subjects	8-12	3-9	
THIRD YEAR LEVEL				
MAB906	Topics in Analysis	2	12	3
MAB907	Mathematical Statistics IIIA	1	12	3
MAB908	Mathematical Statistics IIIB	2	12	3
MAB913	Numerical Analysis III	2	12	3
MAB920	Coding & Encryption Techniques	2	12	3
MAB921	Methods of Mathematical			
	Physics A	1	12	3
MAB924	Applied Statistical Techniques	2	12	3
MAB927	Operations Research IIA	1	12	3
MAB928	Operations Research IIB	2	12	3
MAB929	Statistical Forecasting	1	12	3
MAB941	Methods of Mathematical			
	Economics	1	12	3
MAB960	Project Work	1,2	12	3

* These subjects are mandatory; the remainder are referred to as optional; optional subjects include approved elective subjects offered by other Departments or Schools.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MAB301	Calculus & Analysis A	10	3
CSB155	Introduction to Computing	8	3
MAB309	Modern Algebra	10	3
MAB317	Mathematical Statistics I	10	3
MAB331	Introductory Vector Analysis	10	3

Year 1, Semester 2			
MAB302	Calculus & Analysis B	10	3
ISB493	Business Computer Programming	12	3
MAB310	Linear Algebra	10	3
MAB318	Mathematical Statistics IIA	10	3
MAB342	Mathematics of Finance	10	3

Year 2, Semester 1 - Year 3, Semester 2

Select subjects totalling 40-52 credit points each semester, satisfying the course requirements, in consultation with the Course Coordinator.

Part-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MAB310	Linear Algebra	10	3
MAB342	Mathematics of Finance	10	3

Year 1, Semester 2			
MAB301	Calculus & Analysis A	10	3
CSB155	Introduction to Computing	8	3
MAB317	Mathematical Statistics I	10	3

Year 2, Semester 1			
MAB302	Calculus & Analysis B	10	3
ISB493	Business Computer Programming	12	3
MAB318	Mathematical Statistics IIA	10	3

Year 2, Semester 2			
MAB309	Modern Algebra	10	3
MAB331	Introductory Vector Analysis	10	3

Year 3, Semester 1 - Year 6, Semester 2

Select subjects totalling 20-30 credit points each semester, satisfying the course requirements, in consultation with the Course Coordinator.

Elective Subjects

The choice of electives 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 subjects may be counted as second year level subjects. Students are required to consult the Head of School prior to initial enrolment in an elective subject.

Cooperative 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 Cooperative Education Program Coordinator, undertake the Cooperative 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 subjects ASB300 Cooperative Education I (first semester) and ASB400 Cooperative Education II (second semester). On completion of the approved Cooperative Education placement the student resumes formal studies.

■ Bachelor of Applied Science – Medical Laboratory Science (MSJ126)

Location: Gardens Point campus

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

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mrs Anne Pope

Professional Recognition

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.

Special Course Requirement

For commencing students in the part-time program, subjects in Year 1, 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
Year 1, Semester 1			
CHB142	Chemistry I	12	6
PHB150	Physics IH	12	6
PNB131	Anatomy I	6	3
MAB150	Quantitative Techniques	6	2
MSB101	Microbiology I	6	3
CSB259	Laboratory Computing I	6	2
Year 1, Semester 2			
CHB242	Chemistry II	12	6
PHB250	Physics IIH	10	4
PNB132	Anatomy II	6	3
MAB252	Statistics	4	2
MSB145	Laboratory Technology II	8	3
PNB165	Physiology II	8	4

Year 2, Semester 1

CHB382	Chemistry III	4	2
MSB405	Laboratory Computing III	8	3
MSB445	Laboratory Technology III	8	3
PNB465	Physiology III	8	4
MAB259	Biomedical Statistics III	6	2
MSB415	Biochemistry III	10	5
MSB450	Microbiology III	6	3

Year 2, Semester 2

MSB416	Biochemistry IV	10	5
MSB454	Microbiology IV	8	4
MSB412	Immunology IV	8	4
MSB426	Haematology IV	8	4
MSB492	Histopathology IV	8	4
MSB430	Disease Processes IV	4	2

Year 3, Semester 1

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

Year 3, Semester 2

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

Part-Time Course Structure

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

Year 1, Semester 1

CHB142	Chemistry I	12	6
MAB150	Quantitative Techniques	6	2
PNB131	Anatomy I	6	3

Year 1, Semester 2

CHB242	Chemistry II	12	6
MAB252	Statistics	4	2
PNB132	Anatomy II	6	3

Year 2, Semester 1

PHB150	Physics IH	12	6
CSB259	Laboratory Computing I	6	2
MAB259	Biomedical Statistics III	6	2

Year 2, Semester 2

PHB250	Physics IHH	10	4
MSB145	Laboratory Technology II	8	3
0MSB101	Microbiology I	6	2

Year 3, Semester 1

PNB165	Physiology II	8	4
CHB382	Chemistry III	4	2
MSB445	Laboratory Technology III	8	3
MSB405	Laboratory Computing III	8	3

Year 3, Semester 2

MSB415	Biochemistry III	10	5
PNB465	Physiology III	8	4
MSB430	Disease Processes IV	4	2

Year 4, Semester 1

MSB416	Biochemistry IV	10	5
MSB450	Microbiology III	6	3
MSB454	Microbiology IV	8	4

Year 4, Semester 2

MSB412	Immunology IV	8	4
MSB492	Histopathology IV	8	4
MSB426	Haematology IV	8	4

Year 5, Semester 1

MSB718	Clinical Biochemistry V	8	4
MSB726	Haematology V	8	4
MSB792	Histopathology V	8	4

Year 5, Semester 2

MSB719	Clinical Biochemistry VI	8	4
MSB727	Haematology VI	8	4
MSB793	Histopathology VI	8	4

Year 6, Semester 1

MSB756	Clinical Bacteriology VI	16	7
MSB712	Immunology V	8	4

Year 6, Semester 2

MSB755	Microbiology V	16	7
MSB713	Immunohaematology VI	8	4

Bachelor of Applied Science – Medical Radiation Technology with Majors in Medical Imaging Technology and Radiotherapy Technology (PHJ248)

Location: Gardens Point campus

Course Duration: 3 years full-time

Total Credit Points: 288

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Assoc. Professor Brian J. Thomas

Full-Time Course Structure

		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
COMMON SUBJECTS			
CMB106	Professional Communication	6	3
MAB151	Quantitative Techniques	4	2
MNB111	Introductory Psychology for Health Professionals	4	2
NSB201	Principles of Patient Care	4	2
PHB111	Physics IB	8	3

PHB178	Principles of Medical Radiations	10	5
PNB125	Anatomy & Physiology I	10	4

Year 1, Semester 2

COMMON SUBJECTS

MSB120	Introduction to Pathology	6	3
PHB272	Radiation Physics I	12	5
PNB225	Anatomy & Physiology II	10	4

MEDICAL IMAGING TECHNOLOGY MAJOR

PHB275	Processing Technology	4	2
PHB276	General Radiography I	14	7
PHB279	Clinical Radiography I	4	2

RADIOTHERAPY TECHNOLOGY MAJOR

PHB286	Treatment Planning I	12	6
PHB287	Megavoltage Therapy I	6	3
PHB289	Clinical Radiotherapy I	4	2

Year 2, Semester 1

COMMON SUBJECTS

MSB320	Systematic Pathology	8	3
PNB325	Regional & Sectional Anatomy	8	4

MEDICAL IMAGING TECHNOLOGY MAJOR

PHB373	Nuclear Medicine Imaging I	4	2
PHB374	Radiographic Equipment I	6	3
PHB376	General Radiography II	12	5
PHB379	Clinical Radiography II	10	5

RADIOTHERAPY TECHNOLOGY MAJOR

PHB382	Radiotherapy Physics I	4	2
PHB386	Treatment Planning II	4	2
PHB387	Megavoltage Therapy II	14	6
PHB389	Clinical Radiotherapy II	10	5

Year 2, Semester 2

COMMON SUBJECTS

PHB475	Medical Radiation Computing I	8	3
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MEDICAL IMAGING TECHNOLOGY MAJOR

PHB473	Medical Ultrasound	4	2
PHB474	Radiographic Equipment II	4	2
PHB476	Special Procedures	8	3
PHB479	Clinical Radiography II	8	4
PHB573	Digital Imaging Modalities	6	2
PNB425	Imaging Anatomy	8	4

RADIOTHERAPY TECHNOLOGY MAJOR

PHB481	Dosimetry	6	3
PHB482	Radiotherapy Physics II	6	3
PHB484	Principles of Treatment I	6	3
PHB487	Megavoltage Therapy III	10	4
PHB489	Clinical Radiotherapy III	8	4
PHB585	Computer Assisted Treatment Planning I	8	3

Year 3, Semester 1

COMMON SUBJECTS

PHB471	Radiation Physics II	4	2
PHB575	Medical Radiation Computing II	8	3

MEDICAL IMAGING TECHNOLOGY MAJOR

MSB420	Imaging Pathology	4	2
PHB572	Image Recording & Evaluation	4	2
PHB574	Quality Assurance in Medical Imaging	6	3
PHB576	Advanced Radiographic Technique I	12	6
PHB578	Image Interpretation I	4	2
PHB579	Clinical Radiography IV	8	4

RADIOTHERAPY TECHNOLOGY MAJOR

PHB583	Complementary & Evolving Techniques	6	3
PHB584	Principles of Treatment II	4	2
PHB587	Orthovoltage & Superficial Therapy	10	4
PHB589	Clinical Radiotherapy IV	12	6

Year 3, Semester 2**COMMON SUBJECTS**

MNB666	Counselling for Health Professionals	4	2
PHB671	Radiation Biology	4	2
PHB672	Project	8	3

MEDICAL IMAGING TECHNOLOGY MAJOR

PHB676	Advanced Radiographic Technique II	8	3
PHB679	Clinical Radiography V	14	6
	EITHER		
PHB680	Nuclear Medicine Imaging II	10	5
	OR		
PHB681	Computed Tomography Imaging	10	5

RADIOTHERAPY TECHNOLOGY MAJOR

PHB683	Oncological Imaging	6	3
PHB685	Computer Assisted Treatment Planning II	8	4
PHB687	Specialised Radiotherapy Technique	10	4
PHB689	Clinical Radiotherapy V	8	4

Associate Diploma in Applied Science with Majors in Biology and Chemistry (ASL225)

Location: Gardens Point campus

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Coordinator for Biology Major: Dr Chris King

Cordinator for Chemistry Major: Dr Graham Smith

Full-Time Course Structure

(Semester 1 common to both Majors)

**Credit
Points**

**Contact
Hrs/Wk**

Year 1, Semester 1

BEA108	Introductory Biology	8	3
BEA198	Microscopy Techniques	8	3
CHA111	Laboratory Techniques	8	3
CHA145	Introductory Chemistry	8	3
MAA251	Statistics & Data Processing	8	3
PHA154	Introductory Physics	8	3

BIOLOGY MAJOR**Year 1, Semester 2**

BEA200	Biology B	8	3
BEA202	Cell Structure & Function	8	3
BEA297	Biological Data Handling	8	3
CHA218	Analytical Chemistry I	8	3
CHA240	Instrumental Techniques	8	3
MSA113	Introductory Biochemistry	8	3

Year 2, Semester 1

BEA339	Introduction to Bioculture	8	3
BEA349	Computer Applications in Biology	8	3
BEA398	Animal & Plant Techniques	12	4
CHA442	Introduction to Occupational Safety	4	2
	Electives* - two of:		
BEA004	Taxonomy	8	3
BEA016	Aquaculture Techniques	8	3
BEA021	Plant Physiology	8	3
BEA060	Hydrobiological Techniques	8	3
	or other approved electives		

Year 2, Semester 2

BEA403	Environmental Biology	8	3
BEA405	Population Biology	8	3
BEA498	Field Techniques	8	3
BEA499	Applications in Electron Microscopy	8	3
MSA162	Microbiology II	8	3
	Elective* - one of:		
BEA011	Animal Physiology	8	3
BEA026	Plant Cell & Tissue Culture	8	3
CSA259	Introduction to Computing	8	2
	or another approved elective		

CHEMISTRY MAJOR**Year 1, Semester 2**

CHA218	Analytical Chemistry I	8	3
CHA219	Qualitative Analysis	6	3
CHA230	Chemistry of Inorganic Materials	4	2
CHA270	Physical Chemistry I	8	3
CHA240	Instrumental Techniques	8	3
CHA250	Organic Chemistry I	8	3
CSA259	Introduction to Computing	8	2

Year 2, Semester 1

CHA318	Instrumental Analytical Chemistry	8	4
CHA319	Analytical Chemistry II	6	3
CHA370	Physical Chemistry II	6	2
CHA320	Chemical Process Principles I	8	3
CHA350	Organic Chemistry II	8	3
CHA442	Introduction to Occupational Safety	4	2
	Elective* - one of:		
CHA580	Food Chemistry I	8	3
	OR		
ESA310	Geology	8	3
	OR		
MSA161	Microbiology I	8	3
	or any other approved elective		

Year 2, Semester 2

CHA368	Industrial Chemistry	8	3
CHA670	Physical Chemistry III	8	3

* Students should discuss their choice of electives with the Course Coordinator.

CHA410	Computers in Chemistry	8	3
CHA610	Industrial Analysis	8	3
CHA550	Organic Chemistry III	8	3
	Elective*- one of:		
CHA680	Food Chemistry II	8	3
	OR		
ESB220	Principles of Mineralogy	8	3
	OR		
MSA162	Microbiology II	8	3
	OR		
CHA520	Chemical Process Principles II	8	3
	or any other approved elective		

Part-Time Course Structure (Year 1 common to both Majors)	Credit Points	Contact Hrs/Wk
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Year 1, Semester 1

BEA108	Introductory Biology	8	3
CHA145	Introductory Chemistry	8	3
PHA154	Introductory Physics	8	3

Year 1, Semester 2

BEA198	Microscopy Techniques	8	3
CHA111	Laboratory Techniques	8	3
MAA251	Statistics & Data Processing	8	3

BIOLOGY MAJOR

Year 2, Semester 1

BEA202	Cell Structure & Function	8	3
BEA297	Biological Data Handling	8	3
CHA218	Analytical Chemistry I	8	3

Year 2, Semester 2

CHA240	Instrumental Techniques	8	3
MSA113	Introductory Biochemistry	8	3
BEA200	Biology B	8	3

Year 3, Semester 1

BEA349	Computer Applications in Biology	8	3
BEA499	Applications in Electron Microscopy+	8	3

Year 3, Semester 2

BEA398	Animal and Plant Techniques+	12	4
MSA162	Microbiology II	8	3
BEA403	Environmental Biology#	8	3

Year 4, Semester 1

BEA339	Introduction to Bioculture	8	3
CHA442	Introduction to Occupational Safety**	4	2
	Electives* - two of:		
BEA004	Taxonomy	8	3
BEA016	Aquaculture Techniques	8	3
BEA021	Plant Physiology	8	3
BEA060	Hydrobiological Techniques	8	3
BEA090	External Project I	8	3
BEA099	External Project II	8	3
	or other approved electives.		

* Students should discuss their choice of electives with the Course Coordinator.

+ Day release will be required.

Day release will be required for the field component of this subject.

** Students in appropriate employment may claim exemption from this subject.

Year 4, Semester 2

BEA405	Population Biology+	8	3
BEA498	Field Techniques+ Elective* - one of:	8	3
BEA011	Animal Physiology	8	3
BEA026	Plant Cell & Tissue Culture	8	3
BEA090	External Projects I	8	3
BEA099	External Projects II	8	3
CSA259	Introduction to Computing or another approved elective	8	2

CHEMISTRY MAJOR**Year 2, Semester 1**

CHA218	Analytical Chemistry I	8	3
CHA270	Physical Chemistry I	8	3
CHA230	Chemistry of Inorganic Materials	4	2
CHA250	Organic Chemistry I	8	3

Year 2, Semester 2

CHA219	Qualitative Analysis	6	3
CHA240	Instrumental Techniques	8	3
CHA350	Organic Chemistry II	8	3

Year 3, Semester 1

CHA318	Instrumental Analytical Chemistry	8	4
CHA370	Physical Chemistry II	6	2
CHA319	Analytical Chemistry II	6	3

Year 3, Semester 2

CHA550	Organic Chemistry III	8	3
CHA610	Industrial Analysis	8	3
CHA670	Physical Chemistry III	8	3
CSA259	Introduction to Computing	8	2

Year 4, Semester 1

CHA320	Chemical Process Principles I	8	3
CHA442	Introduction to Occupational Safety# Elective* - one of:	4	2
CHA580	Food Chemistry I OR	8	3
ESA310	Geology OR	8	3
MSA161	Microbiology I or any other approved elective.	8	3

Year 4, Semester 2

CHA410	Computers in Chemistry	8	3
CHA368	Industrial Chemistry Elective* - one of:	8	3
CHA680	Food Chemistry II OR	8	3
ESB220	Principles of Mineralogy OR	8	3
MSA162	Microbiology II OR	8	3
CHA520	Chemical Process Principles II or any other approved elective	8	3

* Students should discuss their choice of electives with the Course Coordinator.

+ Day release will be required for the field component of this subject.

Students in appropriate employment may claim exemption from this subject.

Notes:

Students in the Biology Major 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 Major with relevant technical experience may seek total or partial exemption from one or more of the elective subjects 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 Course Coordinator concerning requirements to complete the course.

■ Associate Diploma in Clinical Laboratory Techniques (MSL182)

Location: Gardens Point campus

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

Total Credit Points: 192

Standard Credit Points/Full-Time Semester: 48

Course Coordinator: Mr Alex Anderson

Professional Recognition

This 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.

Special Course Requirements

Students may undertake the course on a full-time or part-time basis. Part-time students will be required to attend lectures during normal working hours.

Students entering the course may undertake either of two majors – Laboratory Major, or Clinical Measurement Major (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 Major or the Clinical Measurement Major.

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 Major studies are required to consult the Course Coordinator prior to enrolling in these subjects. These subjects are only offered during the evening at present.

Students who have successfully completed Year 1, Semesters 1 and 2 in the full-time program or Years 1 and 2 in the part-time program may enter the Clinical Measurement Major either at Year 3, Semester 1 or Year 4, Semester 1.

If the Clinical Measurement Major (Year 3, Semesters 1 – Year 4, Semester 2) 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 subject on providing evidence of training and experience acceptable to the Head of Department.

Full-Time Course Structure		Credit Points	Contact Hrs/Wk
Year 1, Semester 1			
MSA111	Biological Chemistry I	8	4
MSA123	Laboratory Instrumentation I	8	4
PHA154	Introductory Physics	8	3
PNA170	Anatomy & Physiology I	8	3
MSA161	Microbiology I	8	3
MSA120	Perspectives in Medicine	4	1
CMA133	Communication Techniques	4	2
Year 1, Semester 2			
MSA112	Biological Chemistry II	8	4
PNA171	Anatomy & Physiology II	8	3
MSA124	Laboratory Instrumentation II	8	4
PHA213	Medical Instrumentation II	8	4
MSA162	Microbiology II	8	3
MSA121	Pathology	8	2
LABORATORY MAJOR			
Year 2, Semester 1			
MAA251	Statistics & Data Processing	8	2
Five of the following:			
MSA471	Clinical Biochemical Techniques III	8	4
MSA441	Clinical Microbiological Techniques III	8	4
MSA481	Haematological Techniques III	8	4
MSA463	Histological Techniques III	8	4
MSA435	Immunological Techniques III	8	4
MSA465	Cytological Techniques III	8	4
Year 2, Semester 2			
CSA259	Introduction to Computing	8	2
Five of the following:			
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 MEASUREMENT MAJOR**Year 2, Semester 1** not offered in this semester**Year 2, Semester 2** of the full-time program.**Part-Time Course Structure****Credit
Points****Contact
Hrs/Wk****Year 1, Semester 1**

MSA111	Biological Chemistry I	8	4
PHA154	Introductory Physics	8	3
MSA123	Laboratory Instrumentation I	8	4

Year 1, Semester 2

MSA112	Biological Chemistry II	8	4
MSA124	Laboratory Instrumentation II	8	4
PHA213	Medical Instrumentation II	8	4

Year 2, Semester 1

MSA161	Microbiology I	8	3
PNA170	Anatomy & Physiology I	8	3
CMA133	Communication Techniques	4	2
MSA120	Perspectives in Medicine	4	1

Year 2, Semester 2

MSA162	Microbiology II	8	3
PNA171	Anatomy & Physiology II	8	3
MSA121	Pathology	8	2
MAA251	Statistics & Data Processing	8	2

From Year 3, Semester 1 students should choose either the Laboratory Major or Clinical Measurement Major.

LABORATORY MAJOR

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.

Year 3, Semester 1

MSA471	Clinical Biochemical Techniques III	8	4
MSA481	Haematological Techniques III	8	4
MSA441	Clinical Microbiological Techniques III	8	4

Year 3, Semester 2

CSA259	Introduction to Computing	8	2
MSA472	Clinical Biochemical Techniques IV	8	4
MSA482	Haematological Techniques IV	8	4
MSA442	Clinical Microbiological Techniques IV	8	4

Year 4, Semester 1

MSA463	Histological Techniques III	8	4
MSA435	Immunological Techniques III	8	4
MSA465	Cytological Techniques III	8	4

Year 4, Semester 2

MSA464	Histological Techniques IV	8	4
MSA436	Transfusion Techniques IV	8	4
MSA466	Cytological Techniques IV	8	4

CLINICAL MEASUREMENT MAJOR

Students are required to pass Introduction to Computing and the Clinical Measurement Subjects in each of the four semesters.

Year 3, Semester 1

PNA550	Cardiac Physiology & Anatomy	5	2
PHA561	Cardiac Instrumentation	6	3
PHA562	Cardiac Measurement Techniques	9	

Year 3, Semester 2

PNA650	Respiratory Physiology & Anatomy	5	2
PHA661	Respiratory Instrumentation	6	3
PHA662	Respiratory Measurement Techniques	9	
CSA259	Introduction to Computing	8	2

Year 4, Semester 1

PNA750	Neurological Physiology & Anatomy	5	2
PHA761	Neurological Instrumentation	6	3
PHA762	Neurological Measurement Techniques	9	

Year 4, Semester 2

CSA259	Introduction to Computing	8	2
PNA850	Urological Physiology & Anatomy	5	2
PHA861	Urological Instrumentation	6	3
PHA862	Urological Measurement Techniques	9	

Policy on Submission of Project Reports for Assessment

The Science Academic Board has approved the following rules with regard to the completion of project subjects in all undergraduate and postgraduate courses (including honours projects):

- A student enrolled in a project subject is required to submit the associated project report, dissertation or thesis for assessment by no later than the final day of the examination period for the semester in which the student's enrolment in that subject will terminate.
- In special circumstances and on the written recommendation of the student's supervisor, the Dean may grant an extension of time to complete the work associated with the project. The final date for submission of the report after such an extension shall be the last day of the deferred examination period for the semester in which the student's enrolment in that subject would terminate. In such cases, a 'V' result shall be given initially to the student in respect of this subject.
- The Academic Board may grant a further extension of time to complete the work associated with a project, on condition that the student re-enrols in the project subject for the succeeding semester. Failure to re-enrol in the project subject by the last day of the deferred examination period for the semester in which, otherwise, the student's enrolment in that subject would terminate will result in a grade of Fail (N) being awarded in that subject.

Subsequent to the assessment process, the relevant school or department shall have discretion as to whether a candidate needs to re-enrol to effect any amendments required, or whether such amendments are essentially editorial. However, a student who is required to undertake further investigative work relating to his/her project must continue to be enrolled in the relevant project subject.

Students seeking extensions are advised that late submission of a project report for assessment as indicated in (b) above may prevent publication of the associated result in time for the student to be included on the graduation list for that semester. Thus, course completion and graduate status from the relevant course may be delayed. This could disadvantage students seeking employment or promotion on the basis of the qualification in question.

4

Subject Synopses

SUBJECT SYNOPSES

Gardens Point campus

This section provides synopses of the subjects offered on the University's Gardens Point campus. The synopses are presented in alpha-numeric order according to their codes.

Subject coding and numbering

The subject code is of the format XXX999. The first two characters indicate the Department, School or Faculty administering the subject. The third character indicates the level of the course in which the subject is normally taught.

Subject Coding

AC Accountancy
AR Architecture and Industrial Design
AS Science
BE Biology
BG Construction Management
BS Business
BT Built Environment
CE Civil Engineering
CH Chemistry
CM Communication
CS Computing Science
EE Electrical and Electronic Systems Engineering
EN Engineering
ES Applied Geology
HS Health Science
IN Information Technology
IS Information Systems
LP Planning and Landscape Architecture
LW Law
MA Mathematics

ME Mechanical and Manufacturing Engineering
MN Management
MS Medical Laboratory Science
NS Nursing
OP Optometry
PH Physics
PN Public Health and Nutrition
SV Surveying
IF Interfaculty

Subject Numbering

N Masters Degree
P Graduate Diploma
B Bachelors Degree
D Diploma
A Associate Diploma (all schools except Engineering)
T Associate Diploma in Engineering Faculty
S Special Subjects

Prerequisite and co-requisite subjects

For definitions of the terms prerequisite and co-requisite subject(s) refer to Rule 1.10.2 of the Student Rules, Policies and Procedures in this Handbook.

[R] = Repeat-requisite; the prerequisite or co-requisite requirements may be satisfied by attempting the subject – a passing grade is not essential. A student is deemed to have attempted the subject if all assessment requirements have been attempted when registered for the subject. If failed, the repeat-requisite must be repeated at the first opportunity.

■ ACB110 ACCOUNTING I

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:** 4 per week

■ ACB115 ACCOUNTING II

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 **Contact Hours:** 4 per week

■ ACB140 BUSINESS LAW

The components of the Australian legal system and the judicial process; the way legal decisions are made; a study of contract law.

Credit Points: 12 **Contact Hours:** 4 per week

■ ACB180 ACCOUNTING FOR MANAGERS

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

The functions, activities and structure of organisations and the basic concepts of information and decision making; examination of 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.); the procedures and techniques involved in the F.A.I.S. and the management planning and control system.

Credit Points: 9 **Contact Hours:** 2 per week

■ ACB212 COMPANY ACCOUNTING

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: ACB115

Credit Points: 12 **Contact Hours:** 4 per week

■ ACB220 COST ACCOUNTING

Cost accounting terminology; costing systems and cost estimation techniques.

Prerequisite: ACB110

Credit Points: 12 **Contact Hours:** 4 per week

■ ACB230 FINANCIAL MANAGEMENT I

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: ACB115 and MNB252

Credit Points: 12 **Contact Hours:** 4 per week

■ ACB231 AUSTRALIAN CAPITAL MARKETS

The Australian Capital Markets; institutions and behaviour; development of financial market mathematical skills.

Prerequisite: MNB251

Credit Points: 12 **Contact Hours:** 3 per week

■ ACB240 LAW OF BUSINESS ASSOCIATIONS

The law relating to the establishment, operation, and dissolution of business associations; the forms of business associations; partnerships, joint ventures, trusts, companies and voluntary associations.

Prerequisite: ACB140

Credit Points: 12 **Contact Hours:** 4 per week

■ ACB280 HEALTH ADMINISTRATION FINANCE

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: ACB383 or ACB110

Credit Points: 12 **Contact Hours:** 3 per week

■ ACB281 BUILDING FINANCIAL MANAGEMENT I

The accounting process and accounting systems in the Building Industry; the nature of accounts, liabilities, and proprietorship; the accounting equation and balance sheet, ledger accounts and the double entry system, the accounting period concept, and profit determination; different forms of ownership and the basic nature of taxation; budgeting.

Credit Points: 4 **Contact Hours:** 2 per week

■ ACB282 MANAGERIAL ACCOUNTING PRINCIPLES

Budgeting, standard costs and variance reporting for manufacturing and non-manufacturing firms; managerial performance reporting, decentralised business operation, and capital budgeting; inventory planning, control and valuation; relevant costs and decision making, project control.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACB310 ACCOUNTING THEORY & PRACTICE

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: ACB212

Credit Points: 12 **Contact Hours:** 4 per week

■ ACB311 AUDITING

The audit environment; legal liability of auditors; professional ethics; 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, sampling techniques; the audit report.

Prerequisite: ACB212

Credit Points: 12 **Contact Hours:** 3 per week

■ ACB312 AUDITING & PROFESSIONAL PRACTICE

The audit approach; planning an audit; 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

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; case 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

■ ACB322 FINANCIAL MODELLING

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 decision. An IFPS project is also included in the course.

Prerequisite: ACB230

Credit Points: 12 **Contact Hours:** 3 per week

■ ACB330 GOVERNMENT FINANCE

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: ACB320, MNN106

Credit Points: 12 **Contact Hours:** 3 per week

■ ACB331 FINANCIAL MANAGEMENT II

Firm decisions regarding dividends; capital structure; working capital and leasing; 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

The operation of Australia's financial markets; use of Stock Exchange data, to calculate betas and form investment portfolios.

Prerequisite: ACB230

Credit Points: 12 **Contact Hours:** 3 per week

■ ACB335 INSURANCE RISK MANAGEMENT

Risk classification; measurement and analyses of risk; types of insurance policies available; the evaluations of an insurance program.

Prerequisites: ACB110, ACB230

Credit Points: 12 **Contact Hours:** 3 per week

■ ACB336 INTERNATIONAL FINANCE

International financial markets; overseas finance; exchange rate; risk management; international investment; legislation.

Prerequisites: ACB230, ACB231

Credit Points: 12 **Contact Hours:** 3 per week

■ ACB340 TAXATION LAW AND PRACTICE

Introduction to the Australian taxation system; the elements in calculating taxable income-assessable income and allowable deductions; the treatment of eligible termination payments, capital gains tax, trading stock and specific allowable deduction provisions (including substantiation); calculation of tax payable; and fringe benefits tax.

Prerequisite: ACB240

Credit Points: 12 **Contact Hours:** 3 per week

■ ACB341 COMMERCIAL & SECURITIES LAW

Specific types of contract – sale of goods, hire purchase and agency etc; bailment.

Prerequisite: ACB140

Credit Points: 12 **Contact Hours:** 4 per week

■ ACB342 COMPANY LAW & PRACTICE

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.

Prerequisite: ACB240

Credit Points: 12 **Contact Hours:** 4 per week

■ ACB343 TAXATION OF BUSINESS ENTITIES

The income tax treatment of the various business entities and classes of taxpayer; the principles governing the taxation of international transactions; the administration of taxation legislation; the imposition of non-income business taxes.

Prerequisite: ACB340

Credit Points: 12 **Contact Hours:** 4 per week

■ ACB344 TAXATION & PROFESSIONAL PRACTICE

Indirect and related business taxes; tax planning and client relationships; 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:** 3 per week

■ ACB345 FINANCIAL INSTITUTIONS - LAW

The general processes of the legal system; legal structures of financial institutions, bank-customer relationship; Cheque Act, negligent advice; Credit Act.

Prerequisite: ACB140

Credit Points: 12 **Contact Hours:** 3 per week

■ ACB350 FINANCIAL INSTITUTIONS - LENDING

The principles and practice of lending; how loans are analysed in a banking environment; the legal relation-

ship between financial institutions and their customers.

Prerequisite: ACB230

Credit Points: 12 **Contact Hours:** 3 per week

■ **ACB351 FINANCIAL INSTITUTIONS – MANAGEMENT**

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**

Introduction to the operations of important overseas capital markets.

Prerequisites: ACB231, ACB230

Credit Points: 12 **Contact Hours:** 3 per week

■ **ACB360 COMPUTER SECURITY & AUDIT**

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 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 crimes – 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 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 or contract law.

Prerequisites: MNB181, MNB183

Credit Points: 12 **Contact Hours:** 3 per week

■ **ACB382 INTRODUCTORY ACCOUNTING**

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**

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

■ **ACB480 PERSONAL & CORPORATE FINANCE**

The Australian financial environment from both a personal and corporate point of view; 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**

Introduction to the theory and practice of financial management in Australia; 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

■ **ACB999 SPECIAL TOPIC – ACCOUNTANCY**

Credit Points: 12 **Contact Hours:** 3 per week

■ **ACN110 PROFESSIONAL YEAR MODULE – ACCOUNTING**

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 per semester

Contact Hours: 3 per week

■ **ACN111 FINANCIAL ACCOUNTING HONOURS**

See ACN110.

Credit Points: 12 **Contact Hours:** 3 per week

■ **ACN112 ADVANCED COMPANY ACCOUNTING**

Accounting for intercompany investments; relevant Australian and overseas accounting standards, in particular, standards involving goodwill, business combinations, investments, consolidation, equity accounting and accounting for joint ventures; changes in ownership of shares; mutual shareholdings; foreign subsidiaries; different classes of shares and funds statements.

Credit Points: 12 **Contact Hours:** 3 per week

■ **ACN114 ACCOUNTING RESEARCH**

The research methodology used in the field of accounting; 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 analyse 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 **Contact Hours:** 3 per week

■ **ACN118 INTERNATIONAL ACCOUNTING**

Examination of accounting and auditing functions in the context of multinational corporations; environmental influences on accounting practices; accounting for changing prices; taxation; foreign currency translation; multinational transfer pricing and performance evaluation; role and impact of interna-

tional accounting standards and auditing guidelines from IFAC and relationship to Australian accounting and auditing standards; financial reporting and the analysis of foreign financial statements.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN119 COMPANY SECRETARIAL PRACTICE

The role, obligations and liabilities of the company secretary; 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; aspects of insolvency; the role of provisional liquidators; schemes of arrangement.

Credit Points: 12

■ ACN120 PROFESSIONAL YEAR MODULE – AUDIT & EDP

See ACN125.

Credit Points: 12 per semester

Contact Hours: 3 per week

■ ACN121 COMPUTER AUDITING

The fundamental principles of the practice of computer auditing; the auditor and the computer; the study and evaluation of internal control in a computerised application; 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 mini and micro computer systems.

Prerequisite: ACN125

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN122 AUDIT SAMPLING

Statistical sampling methods proposed for and employed in the performance of audits; the audit sampling process; auditor decisions and risk of error; attribute; variable and probability proportional-to-size sampling.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN123 INTERNAL AUDITING

The techniques generally used by the internal auditor; the need for efficiency or value-for-money auditing; the role the internal auditor must play in large organisations (public and private).

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN124 AUDITING HONOURS

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 **Contact Hours:** 3 per week

■ ACN125 AUDITING STANDARDS & PRACTICE

An examination of relevant auditing standards and their implications for practice; development of an analytical approach; the ability to exercise professional judgement to audit problems.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN126 FINANCIAL REPORTING

The requirements for the preparation and presentation of financial statements in accordance with various professional and statutory reporting requirements; analysis and interpretation of financial statements.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN127 EXTERNAL REPORTING ISSUES

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 Accounting Research Foundation.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN151 FINANCE HONOURS

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); efficient capital markets (theory and evidence).

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN152 ADVANCED CAPITAL BUDGETING

The use of case studies to understand the theory and practice underlying the firm's investment and financing decisions; 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 **Contact Hours:** 3 per week

■ ACN153 INTERNATIONAL FINANCE

The finance function in the context of multinational corporations and overseas financial markets; foreign currency translations in a reporting and decision-making context; multinational transfer pricing; performance evaluation; an introduction to international financial markets; exchange risk exposure; multinational diversification; remittance to parent companies (dividends, loan repayments); finance of export trade; host country legislation and its impact on multinational companies.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN155 FINANCIAL MODELLING

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; solving practical problems using computers, electronic spreadsheets, and modelling applications.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN156 FINANCIAL RISK MANAGEMENT

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 **Contact Hours:** 3 per week

■ ACN170 PROFESSIONAL YEAR MODULE – TAXATION

See ACN171 and ACN172. Assessable income; allowable deductions; taxation of individuals and

business entities; administration and avoidance provisions; introductory international taxation. Includes the taxation topics prescribed by the Institute of Chartered Accountants in Australia for study by candidates enrolled in that body's professional year program.

Credit Points: 12 per semester

■ ACN171 ADVANCED TAXATION

A conceptual analysis of the Australian income tax system in order to give perspective and meaning to the considerable body of technical law; income and capital gains, deductions, tax accounting, entities, avoidance and administration; an in-depth treatment of some complex practical problems raised by the Income Tax Assessment Act and related legislation.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN172 INTERNATIONAL TAXATION

Principles of Australian income tax law and practice as they apply to situations and transactions with an international element. 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 **Contact Hours:** 3 per week

■ ACN174 LIQUIDATIONS & RECEIVERSHIPS

The legal rules and standards governing insolvency; the role of liquidators and receivers; the procedural and documentary steps involved in liquidations and receiverships.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN175 COMMERCIAL LAW HONOURS

The rules governing local and foreign takeovers and mergers; an examination of prominent takeovers that have recently occurred; the managerial and taxation aspects of takeovers; participation in seminar on relevant takeover issues.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN176 INDIRECT TAXATION

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 shifted to another person, eg. the ultimate consumer of goods and services. Specific taxes covered include sales tax, payroll tax, card tax and stamp duty.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN177 TAXATION POLICY HONOURS

The Australian taxation system as it has evolved under the policy-making powers of the Australian Government; in terms of its degree of concordance with traditionally recognised tax policy objectives; specific forms of taxation are appraised; tax reform proposals are critically assessed.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN178 TAX PLANNING

Application of technical expertise in income tax and other revenue laws to specific tax planning situations including employment, retirement, investment, business and professional practice; analysis of the various incentives offered by the Government under the Income Tax Assessment Act and by way of grants and other forms of assistance; the professional responsibilities of the tax practitioner, and judicial, statutory

and professional responses to tax avoidance and evasion.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN231 MANAGERIAL ACCOUNTING HONOURS

The current research in management accounting; 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 **Contact Hours:** 3 per week

■ ACN232 MANAGERIAL ACCOUNTING ISSUES A

The theoretical issues associated with the design, operation and evaluation of management accounting systems; issues surrounding the firm's planning and control decisions; analysis of 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 **Contact Hours:** 3 per week

■ ACN233 MANAGERIAL ACCOUNTING ISSUES B

The practical managerial accounting issues currently facing contemporary management. 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.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN810 FINANCIAL ACCOUNTING I

An introduction to accounting; recording business transactions; adjusting the accounts and preparing financial statements; completion of the accounting cycle; accounting systems and specialised journals; cash and cash controls; accounting for receivables and payables; accounting for merchandising operations and inventories; non-current assets; partnerships; companies; accounting for non-current liabilities; investments; statement of sources and applications of funds; analysis and interpretation of financial statements.

Credit Points: 12 **Contact Hours:** 3 per week

■ ACN813 ACCOUNTING PRINCIPLES

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 & ETHICS

An introduction to business law and to morality in the business context; interpretation of statutes, law of torts, contract law, industrial law and the utility of business structures; morality in the business community; 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

Introduction to the world of finance and financial management. 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 mathe-

matics; cost of funds; the firm investment decision; investment evaluation techniques; cash budgeting; working capital management; capital budgeting; dividend policy, and financial structure policy.

Prerequisite: ACN813

Credit Points: 12 Contact Hours: 3 per week

■ ACN950 DISSERTATION

Prerequisite: ACN114

Credit Points: 24

■ ACN997 SPECIAL TOPIC – COMMERCIAL LAW

Will be offered as required and when the necessary experience is available.

■ ACN998 SPECIAL TOPIC – MANAGERIAL ACCOUNTING/FINANCE

Will be offered as required and when the necessary experience is available.

■ ACN999 SPECIAL TOPIC – PUBLIC ACCOUNTING

Will be offered as required and when the necessary experience is available.

■ 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 emphasises 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.

Credit Points: 12

■ 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 program 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

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

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

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 anthropometrics and ergonomics to design.

Credit Points: 4 Contact Hours: 2 per week

■ ARB192 THE HUMAN ENVIRONMENT II

Human needs and the influence of selected interpersonal and physical variables on human behaviour; 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

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 Contact Hours: 5 per week

■ ARB194 DESIGN II

See ARB193.

Credit Points: 10 Contact Hours: 5 per week

■ ARB195 TECHNOLOGY I

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 non-ferrous 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 Contact Hours: 2 per week

■ ARB196 TECHNOLOGY II

See ARB195.

Credit Points: 4 Contact Hours: 2 per week

■ ARB197 HISTORY OF THE BUILT ENVIRONMENT I

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 Contact Hours: 1 per week

■ ARB198 HISTORY OF THE BUILT ENVIRONMENT

See ARB197.

Credit Points: 2 Contact Hours: 1 per week

■ ARB288 DESIGN SCIENCE II

Continuation of ARB289.

Credit Points: 2 Contact Hours: 1 per week

■ ARB289 DESIGN SCIENCE I

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

Computers as tools for drafting; line graphics; plotting; computer-aided drafting; symbol libraries; dimensioning; computer drafting and office organisation; comparison of available software packages.

Credit Points: 2 Contact Hours: 1 per week

■ ARB291 THE HUMAN ENVIRONMENT III

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: 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

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

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

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 Contact Hours: 2 per week

■ ARB296 BUILDING CONSTRUCTION II

See ARB295.

Credit Points: 4 Contact Hours: 2 per week

■ ARB297 PRINCIPLES OF STRUCTURES I

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

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

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

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

■ ARB387 ENVIRONMENTAL IMPACT STUDIES

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 habitats and wildlife. Field work will form part of this subject.

Credit Points: 2 Contact Hours: 1 per week

■ ARB388 DESIGN SCIENCE IV

Continuation of ARB389. 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

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

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

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

The building as object, surface, volume, space, and sequence; expression of buildings; criteria of good design in terms of style, function, form, structure, services, 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 **Contact Hours:** 5 per week

■ ARB394 BUILDING DESIGN VI

See ARB393.

Credit Points: 8 **Contact Hours:** 4 per week

■ ARB395 BUILDING CONSTRUCTION III

Contemporary construction, concentrating on non-domestic buildings and furthering the understanding of the links between structural theory, building science, construction and design.

Credit Points: 2 **Contact Hours:** 1 per week

■ ARB396 BUILDING CONSTRUCTION IV

See ARB395.

Credit Points: 2 **Contact Hours:** 1 per week

■ ARB397 PRINCIPLES OF STRUCTURES III

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

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

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 per semester

Contact Hours: 1 per week

■ ARB493 DESIGN VII

Masters of the twentieth 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; a series of architectural projects of medium to high-rise construction with emphasis in workability and compliance with codes, by-laws and regulations.

Credit Points: 10 per semester

Contact Hours: 5 per week

■ ARB495 PROFESSIONAL STUDIES I

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 per semester

Contact Hours: 4 per week

■ ARB497 ADVANCED TECHNOLOGY

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 per semester

Contact Hours: 2 per week

■ ARB591 HISTORY OF ARCHITECTURE & ART IV

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 influence. Modernisation, current architecture issues.

Credit Points: 2 per semester

Contact Hours: 1 per week

■ ARB593 DESIGN VIII

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 programs, environmental impact issues, and post-occupancy analysis.

Credit Points: 10 per semester

Contact Hours: 5 per week

■ ARB595 PROFESSIONAL STUDIES II

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 per semester

Contact Hours: 4 per week

■ ARB597 ELECTIVE I

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 ap-

proved subject on campus, or offered at an approved institution.

Credit Points: 4 per semester

Contact Hours: 2 per week

■ ARB693 DESIGN IX

Contemporary architectural theories and ideas and their influence in architectural design and practice. The process of brief, 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

Alternative methods of building procurement with particular emphasis on management of all phases of the building project. This subject is designed 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 per semester

Contact Hours: 2 per week

■ ARB697 ELECTIVE II

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 per semester

Contact Hours: 4 per week

■ ARP501 INTRODUCTION TO FACILITIES MANAGEMENT

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

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

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 I

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

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

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

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

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

An introduction to the interior and building technologies required by a practising 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:** 3 per week

■ ARP613 ADVANCED ERGONOMICS I

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

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, eg, key-punch operator work station, bus driver work station and ergonomic evaluation of an assembly line.

Prerequisite: ARP613

Credit Points: 4 **Contact Hours:** 2 per week

■ ARP642 CASE STUDIES

This subject consists of a series of seminars dealing with case study evaluation by practising 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

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

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

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

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

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

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

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

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 LEARNING AT UNIVERSITY

A series of seminar/workshops run by the Learning Unit designed to assist students to investigate what learning at a tertiary institution involves. The aim of the subject is to introduce students to learning for understanding and integration, rather than simply for reproduction. Students with at least one subject in common will be grouped together, so that material from this subject can be used to help students explore approaches to advanced reading and critical thinking skills in an applied manner.

Credit Points: 2 **Contact Hours:** 1 per week

■ ASB200 INTRODUCTORY METEOROLOGY

The earth's atmosphere; heat transfer processes; the gas laws; the physics of water vapour; wind theory; atmospheric stability and instability; precipitation; atmospheric electricity; synoptic meteorology; atmospheric optics.

Credit Points: 8 **Contact Hours:** 3 per week

■ ASB300 COOPERATIVE EDUCATION I

■ ASB400 COOPERATIVE EDUCATION II

The opportunity for science students to complete practical work, related to their course, in a commercial environment under the joint supervision of an industry supervisor and an academic adviser. The student will be placed with an approved employer. An academic adviser will obtain reports from the student and his or her work supervisor at regular intervals. The student will be required to complete a progressive assessment program. The student's results will be determined on the basis of reports, continuous assessment, and the employer's report.

Prerequisite: Completion of 4 semesters of a standard full-time degree-level course, normally with a GPA of not less than 4.5 overall.

Credit Points: 24 per semester

■ ASP701 INFORMATION RETRIEVAL SKILLS

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

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: 8 per semester

Contact Hours: 6 per week

■ ASP703 STUDIES IN GLOBAL SYSTEMS A

Topics of current global concern 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: 9 **Contact Hours:** 3 per week

■ ASP704 STUDIES IN GLOBAL SYSTEMS B

See ASP703.

Credit Points: 6 **Contact Hours:** 2 per week

■ ASP705 ADVANCED MICROSCOPY TECHNIQUES

This subject describes, and allows students to practise, 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/freezing, 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

Investigation and identification of local flora and fauna; use and construction of keys. The concepts of systematics, classification, taxonomy and nomenclature are introduced in short lectures and tutorials associated with the practical exercises.

Credit Points: 8 **Contact Hours:** 3 per week

■ BEA011 ANIMAL PHYSIOLOGY

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

Topics covered include: water quality monitoring; culture methods for microscopic food organisms; disease 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

An introduction to the important aspects of whole-plant 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

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

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

This elective subject enables 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 **Contact Hours:** 3 per week

■ BEA099 EXTERNAL PROJECTS II

See BEA090.

Credit Points: 8 **Contact Hours:** 3 per week

■ BEA108 INTRODUCTORY BIOLOGY

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

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

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

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

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 BIO CULTURE

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

An introduction to microcomputers and applications software 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

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

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.

Credit Points: 8 **Contact Hours:** 3 per week

■ BEA405 POPULATION BIOLOGY

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.

Co-requisite: BEA498

Credit Points: 8 **Contact Hours:** 3 per week

■ BEA498 FIELD TECHNIQUES

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.

Credit Points: 8 **Contact Hours:** 3 per week

■ BEA499 APPLICATIONS IN ELECTRON MICROSCOPY

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.

Prerequisites: BEA108, BEA198

Credit Points: 8 **Contact Hours:** 3 per week

■ BEB103 BIOLOGY IA

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

A program of practical work presenting aspects of applied biology, plant and animal physiology and basic genetics including bacterial transformation.

Co-requisite: BEB149 unless Senior Biology has been undertaken.

Credit Points: 6 **Contact Hours:** 3 per week

■ BEB149 INTRODUCTORY BIOLOGY

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

■ BEB150 BIOLOGY

An introduction to biology for students with no previous experience in the discipline. An overview of form and function in animal and plant systems; patterns and mechanisms of inheritance; fundamental ecological principles.

Credit Points: 8 **Contact Hours:** 3 per week

■ BEB201 CELL BIOLOGY

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

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 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

Comprises a study of form, function and classification with examples drawn from major plant and animal taxa.

Prerequisite: BEB103

Credit Points: 6 **Contact Hours:** 6 per week

■ BEB321 PLANT PHYSIOLOGY I

This unit develops an understanding of the functional systems of plants and provides an introduction to environmental physiology and plant tissue culture.

Prerequisites: BEB103, BEB201

Credit Points: 8 **Contact Hours:** 3 per week

■ BEB324 CROP SCIENCE I

An introduction to the biology of crop plants with an emphasis on those species of importance in tropical and subtropical agriculture. Topics will include morphology; functional anatomy; ecophysiology; life history; classification and identification of the more important families of crop plants.

Prerequisite: BEB103

Credit Points: 8 **Contact Hours:** 3 per week

■ BEB357 POPULATION & SYSTEMS ECOLOGY

A broad theoretical background in the major concepts of plant and animal ecology. It will form the foundation subject for the Population Studies sub-major. Topics include: the ecology of single populations;

interactions within and between populations; population regulation; adaptation; management; behavioural and community ecology; energetics and biogeography.

Prerequisite: BEB207 **Co-requisite:** BEB358

Credit Points: 8 **Contact Hours:** 3 per week

■ BEB358 EXPERIMENTAL DESIGN

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

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 biogeochemical 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

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

A field-based subject in which students use the background information gained from BEB357 and BEB444 to sample biological populations. Field Studies I will focus on methods applied to terrestrial populations and may include extended field trips.

Prerequisite: BEB357 **Co-requisite:** BEB444

Credit Points: 8 **Contact Hours:** 3 per week

■ BEB411 ANIMAL PHYSIOLOGY

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:** 3 per week

■ BEB423 PLANT TISSUE CULTURE I

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

■ BEB424 CROP SCIENCE II

Principles of crop production including factors affecting crop growth, management and productivity. The important crops will be studied with an emphasis on tropical and subtropical species.

Prerequisite: BEB324

Credit Points: 8 **Contact Hours:** 3 per week

■ BEB429 VEGETATION STUDIES

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

This unit is an introductory subject in basic genetics. Topics covered include: reproduction and the genetic code, the molecular basis of genetics and Mendelian genetics; genotype-phenotype interactions and quantitative genetics; the genetics of prokaryote and simple eukaryote organisms; evolution and natural selection.

Prerequisites: BEB103, BEB201

Credit Points: 8 **Contact Hours:** 3 per week

■ BEB444 POPULATION ANALYSIS

The methods used to estimate important population parameters and characteristics; the underlying theory of methods and the most appropriate circumstances for use of different methods.

Prerequisites: BEB357, BEB358

Credit Points: 8 **Contact Hours:** 3 per week

■ BEB447 ENVIRONMENTAL MONITORING

A course in the skills of environmental measurement concerning ecosystems. The lecture course is supported by field work in several environments using a range of instrumentation to delineate environmental profiles.

Prerequisites: BEB357 or BEB444

Credit Points: 8 **Contact Hours:** 3 per week

■ BEB490 FIELD STUDIES II

A field-based subject in which students use the background information gained in BEB357 and BEB444 to sample aquatic populations. This subject may include extended field trips.

Prerequisites: BEB357, BEB444

Credit Points: 8 **Contact Hours:** 3 per week

■ BEB500 SELECTED TOPICS I

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

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

This unit is an extension of Introductory Genetics and examines in detail the genetics of populations. Topics covered 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

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 coordinates 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.

Prerequisites: BEB303, BEB357

Credit Points: 16 **Contact Hours:** 6 per week

■ BEB563 BIOLOGICAL RESOURCES

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:** 3 per week

■ BEB588 AQUACULTURE II

A course in theoretical and applied aspects of warm-water 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

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 II

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 so-called secondary plant products, eg, 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:** 3 per week

■ BEB653 POPULATION MANAGEMENT

The principles of biological population management; subject deals with natural populations and three forms of management; pest control, harvesting, and conservation. Field trips and computer simulations will be used to investigate management methods.

Prerequisite: BEB444

Credit Points: 8 **Contact Hours:** 3 per week

■ BEB655 CASE STUDIES

Students apply knowledge and skills gained from other subjects to examine a selected population management problem. Students will work in teams and use field, laboratory and library research to develop a consultant-style report. The topics available will be set by staff but could include a range from environmental impact assessment to pest control.

Prerequisite: BEB444

Co-requisite: BEB653

Credit Points: 12 **Contact Hours:** 5 per week

■ BEB660 PROJECTS II

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

■ BEB680 HYDROBIOLOGY & AQUACULTURE

Aquatic biology and aquatic ecosystem management with particular reference to aquatic farming; water quality measurement; criteria and management; nutrient cycles; the composition and biology of aquatic communities; primary and secondary productivity and their control; trophic relationships and energy flow.

Prerequisite: BEB303

Credit Points: 8 **Contact Hours:** 3 per week

■ BEP700 PROJECT – BIOLOGY

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

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

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**

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 I**

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**

Detailed study and instruction in the process and methods of taking off and billing quantities in the trades excavator, concreter, bricklayer and blocklayer and carpenter.

Prerequisite: BGB005

Credit Points: 6 **Contact Hours:** 3 per week

■ **BGB009 MEASUREMENT OF CONSTRUCTION III**

Detailed study and instruction in the process and methods of taking off and billing quantities in more complex building solutions in the trades excavator, concreter, 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**

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**

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**

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**

Properties, manufacture, use and analysis of timber, steel, concrete, and clay products, including investigation into their strength, density, hardness, porosity, plasticity, elasticity and deterioration. Investigation and protection of materials against corrosion and fire.

Co-requisite: BGB254

Credit Points: 4 **Contact Hours:** 2 per week

■ **BGB104 MATERIAL SCIENCE II**

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 per week

■ **BGB131 MEASUREMENT OF CONSTRUCTION IA**

Subject description as for BGB005.

Credit Points: 6 **Contact Hours:** 3 per week

■ **BGB143 STRUCTURES I**

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, columns and connections, design of steel beams and columns, introduction to indeterminate structures.

Credit Points: 4 **Contact Hours:** 2 per week

■ **BGB144 STRUCTURES II**

See BGB143.

Prerequisite: BGB143

Credit Points: 4 **Contact Hours:** 2 per week

■ **BGB151 CONSTRUCTION I**

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

Continuation of BGB151. 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, coordination of building elements for specific building use.

Prerequisite: BGB151

Credit Points: 14 **Contact Hours:** 7 per week

■ BGB161 BUILDING STUDIES I

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 II

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; fireplaces. 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 per week

■ BGB164 BUILDING SERVICES IA

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 refuse 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

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

■ BGB172 CONSTRUCTION II

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, coordination of building elements for specific building use.

Prerequisite: BGB151

Credit Points: 6 **Contact Hours:** 4 per week

■ BGB173 MATERIAL SCIENCE I

Properties, manufacture, use and analysis of timber, steel, concrete, and clay products including investigation into their strength, density hardness, porosity, plasticity, elasticity and deterioration; investigation and protection of materials against corrosion and fire.

Credit Points: 4 **Contact Hours:** 2 per week

■ BGB174 MATERIAL SCIENCE II

The physical and chemical properties of materials and how they affect the construction and structural qualities; laboratory and field testing of bricks, mortar, brickwork, concrete, timber, steel; investigation and protection of materials against corrosion and fire.

Prerequisite: BGB173

Credit Points: 4 **Contact Hours:** 2 per week

■ BGB175 STRUCTURES I

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, columns and connections; design of steel beams and columns; introduction to indeterminate structures.

Credit Points: 4 **Contact Hours:** 2 per week

■ BGB176 STRUCTURES II

This subject is a continuation of BGB175.

Prerequisite: BGB175

Credit Points: 4 **Contact Hours:** 2 per week

■ BGB243 LAW I – BUILDING ACTS & REGULATIONS

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 IIB

Detailed study and instruction in the process and methods of taking off and billing quantities in the trades of excavator, concreter, bricklayer, blocklayer and carpenter for simple buildings.

Prerequisites: BGB151, BGB154

Co-requisite: BGB253

Credit Points: 6 **Contact Hours:** 3 per week

■ BGB246 MEASUREMENT OF CONSTRUCTION IIB

Detailed study and instruction in the process and methods of taking off and billing quantities in more complex building solutions in the trades excavator, concreter, 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 asphalters 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

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 acoustic properties.

Prerequisites: BGB103, BGB104

Credit Points: 4 **Contact Hours:** 2 per week

■ BGB253 CONSTRUCTION III

Extending the scope of Construction I and II to include a range of structures from industrial single to multi-storey residential buildings. Study management, planning, and coordination 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

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

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 **Contact Hours:** 2 per week

■ BGB258 STRUCTURES IV

See BGB257.

Credit Points: 4 **Contact Hours:** 2 per week

■ BGB261 BUILDING STUDIES III

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

An extension of Building Studies III, dealing with multi-storey commercial buildings. It also looks at design appraisal – effect of design on user 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

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.

Credit Points: 5 **Contact Hours:** 2 per week

■ BGB268 VALUATIONS II

See BGB263.

Prerequisite: BGB263

Credit Points: 7 **Contact Hours:** 3 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 PMI – ADVANCED CONSTRUCTION METHODS

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.

Prerequisite: BGB254

Credit Points: 4 **Contact Hours:** 2 per week

■ BGB341 BUILDING & CIVIL ENGINEERING CONSTRUCTION

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

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

Branches of economics. Applied economics. Features of the macroeconomy. 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

Subject description as for BGB164.

Credit Points: 6 **Contact Hours:** 3 per week

■ BGB361 BUILDING SERVICES IIA

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

Credit Points: 10 **Contact Hours:** 4 per week

■ BGB362 PROPERTY MARKETING

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, special and overseas properties. Negotiation skills development.

Credit Points: 7 **Contact Hours:** 3 per week

■ BGB363 VALUATIONS III

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 models: 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. Apprecia-

tion 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: BGB268

Credit Points: 5 **Contact Hours:** 2 per week

■ BGB364 VALUATIONS IV

See BGB363.

Credit Points: 7 **Contact Hours:** 3 per week

■ BGB367 REAL ESTATE ACCOUNTING I

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

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 – decision making 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

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

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

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

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 site 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

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

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 per semester

Contact Hours: 1 per week

■ BGB442 VALUATIONS & DILAPIDATIONS

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 outgoing, and comparison with other forms of investment. Rates of interest required from different types of property. Calculating rental value and net income and capitalisation of net income. Use of valuation tables. Liability for dilapidations. Mean-

ing and liability for legal and equitable waste. Implied, express contract covenants and statutory obligations to repair between landlord and tenant. Landlords' remedies for breach of covenant to repair. Liability for injuries to third parties.

Credit Points: 4 in Semester 1, 2 in Semester 2

Contact Hours: 2 per week in Semester 1, 1 per week in Semester 2

■ BGB443 BUILDING SERVICES III

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

Outline of the various mechanical and electrical systems and the parameters influencing their design and application. Types of estimates and tenders. Break-down 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 allowance for each system.

Prerequisites: BGB013, BGB014

Credit Points: 4 **Contact Hours:** 2 per week

■ BGB446 ESTIMATING I

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

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 hands-on 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

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 ap-

plication. 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

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, concrete 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

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

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.

Prerequisite: BGB363, LPP441

Credit Points: 7 **Contact Hours:** 3 per week

■ BGB465 INVESTMENT DECISIONS & FINANCIAL STRATEGY I

Corporate financial system in Australia: concepts and techniques of financial evaluation, risk management, financing of investments. Investigation of investment strategies related to fixed property; the structure and use of rates of return; the examination of cash flow over time techniques; risk analysis applied to property; the structure of detailed risk and return viability studies; portfolio theory applied to property computer applications.

Credit Points: 7 **Contact Hours:** 3 per week

■ BGB466 INVESTMENT DECISIONS & FINANCIAL STRATEGY II

See BGB465.

Credit Points: 8 **Contact Hours:** 3 per week

■ BGB520 SPECIFICATIONS

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

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

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 modern 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 **Contact Hours:** 2.5 per week

■ BGB529 PM2 – QUANTITATIVE TECHNIQUES

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

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

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

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.

Prerequisite: BGB254

Credit Points: 5 **Contact Hours:** 2.5 per week

■ BGB548 PM4 – CONSTRUCTION PLANNING TECHNIQUES II

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.

Prerequisite: BGB547

Credit Points: 8 **Contact Hours:** 4 per week

■ BGB550 PM5 – PROJECT COST CONTROL

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

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

Technological, legal and financial factors in property maintenance, including taxation issues. It encompasses the nature and importance of building maintenance – concept of building maintenance, 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.

Prerequisites: BGB164, BGB361, BGB269

Credit Points: 4 **Contact Hours:** 2 per week

■ BGB562 PROPERTY MAINTENANCE II

See BGB561.

Credit Points: 6 **Contact Hours:** 3 per week

■ BGB563 VALUATION – ADVANCED I

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

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

Bar chart, critical path networks – arrow and precedence diagrams. Updating, control and reporting techniques. Line of balance, production planning. Resource management.

Prerequisite: BGB161

Credit Points: 8 **Contact Hours:** 3 per week

■ BGB567 REAL ESTATE PRACTICE I

These subjects explore in detail real estate practice, conveyancing, real estate law, marketing and office administration.

Credit Points: 4 **Contact Hours:** 2 per week

■ BGB568 REAL ESTATE PRACTICE II

See BGB567.

Credit Points: 5 **Contact Hours:** 2.5

■ BGB569 PROJECT COST MANAGEMENT I

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

Objectives in formwork building, quality, safety, control. Formwork planning – re-use, materials and hardware, 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. Proprietary 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

The structure, operation and control of the land development industry including the politico-economic framework, land use plans and approval mechanisms of potentially subdivisible 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

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.

Credit Points: 4 **Contact Hours:** 2 per week

BGB624 PM7 – BUILDING DEVELOPMENT TECHNIQUES II

See BGB623.

Credit Points: 4 **Contact Hours:** 2 per week

BGB626 LAND DEVELOPMENT STUDIES

Subject description as for BGB606.

Prerequisites: BTB663, LPB441, LPB444

Credit Points: 4 **Contact Hours:** 2 per week

BGB642 APPLIED COMPUTER TECHNIQUES

An evaluation of the range of commercial and non-commercial computer programs designed for the construction industry.

Prerequisites: BGB548

Credit Points: 6 **Contact Hours:** 3 per week

BGB643 LAW 5 – COMMERCIAL LAW

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: 1.25 per week

BGB647 COST PLANNING & COST CONTROL I

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: BGB005, BGB006, BGB009, BGB010, BGB446, BGB461, BGB462, BGB524, BGB540

Credit Points: 4 **Contact Hours:** 2 per week

BGB648 COST PLANNING & COST CONTROL II

See BGB647.

Credit Points: 6 **Contact Hours:** 3 per week

BGB653 POST CONTRACT SERVICES II

See BGB526.

Credit Points: 5 **Contact Hours:** 2.5 per week

BGB656 BUILDING RESEARCH

History of building research. The definition of research. Australian and international building research organisations. 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 per semester

Contact Hours: 4.5 per week

BGB661 ELECTIVE RESEARCH PROJECT I

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 **Contact Hours:** 4 per week

BGB662 ELECTIVE RESEARCH PROJECT II

See BGB661.

Credit Points: 8 **Contact Hours:** 4 per week

BGB663 PROJECT DEVELOPMENT PROCESS I

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 **Contact Hours:** 2 per week

BGB664 PROJECT DEVELOPMENT PROCESSES II

See BGB663.

Credit Points: 5 **Contact Hours:** 2 per week

BGB665 PROPERTY MANAGEMENT I

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. The management of residential, retail, industrial and commercial buildings. Main statutory provisions relating to above tenancies. Tenancy agreements, management records and accounts. In-

insurance. Cash flow and credit control. Property brokerage – principles and practices.

Credit Points: 8 **Contact Hours:** 3 per week

■ **BGB666 PROPERTY MANAGEMENT II**

See BGB665.

Credit Points: 8 **Contact Hours:** 3 per week

■ **BGB667 APPLIED COMPUTER TECHNIQUES**

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**

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 methods – 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**

Nature and importance of building maintenance; maintenance standards; statutory requirements; cost control and taxation.

Credit Points: 6 per semester

Contact Hours: 2 per week

■ **BGP414 TIME MANAGEMENT II**

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**

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 architectural 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**

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. Basic valuation concepts and methods. Valuation of vacant land, improvements, valuation of improved land, subdivisonal land. Valuation for rating and taxation. Techniques for valuation of residential, single and multi occupier, urban including commercial, high rise, industrial, goodwill and businesses, shopping centres, rural including crops, plant machinery, irrigation, livestock. Acquisition – law and procedures. Compensation and assessment.

Credit Points: 6 **Contact Hours:** 2 per week

■ **BGP426 PROJECT DEVELOPMENT**

Site selection/acquisition. Securing the land. Authority negotiation and approvals. Authority approvals. Resource planning. Acquisition/procurement. Project coordination. 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 per semester

Contact Hours: 2 per week

■ **BGP429 COST MANAGEMENT & ECONOMICS**

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 per semester

Contact Hours: 2 per week

■ **BGP430 CURRENT ISSUES**

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 per semester

Contact Hours: 3 per week

■ **BGP431 PROJECT MANAGEMENT I**

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

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

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 per semester
Contact Hours: 2 per week

BGP434 TIME MANAGEMENT I

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

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: 12 **Contact Hours:** 5 days

BGP438 REAL ESTATE INVESTMENT & ECONOMICS

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 macroeconomics to property market. Economic theories related to locational choice. Land economic theory. Economic factors influencing real estate investment. Business cycles, growth trends, demographic analysis.
Credit Points: 6 **Contact Hours:** 2 per week

BGP439 PROPERTY MANAGEMENT

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

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

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 per semester
Contact Hours: 2 per week

BTB100 INTRODUCTORY DESIGN I

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: 16 **Contact Hours:** 8 per week

BTB101 THE HUMAN ENVIRONMENT I

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 artefacts 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

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

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

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

■ BTB113 ENVIRONMENTAL SCIENCE

Composition of the atmosphere and atmospheric process including climate; air pollution and smog; water cycles, the composition of lakes and oceans; sea-level changes and water pollution as a global issue; carbon, nitrogen and phosphorous cycling and terrestrial, aquatic and atmospheric links; introduction to human population and demographic trends in developed and developing countries; distribution and trade in renewable and non-renewable resources; trends in the use of land; implications of urbanisation for rural land management; the city as an ecosystem – local and regional environmental impacts; natural resource management and conservation.

Credit Points: 4 **Contact Hours:** 2 per week

■ BTB132 LIGHT & COLOUR STUDIES

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

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

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

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 the Built Environment II.

Prerequisite: BTB100

Credit Points: 18 **Contact Hours:** 8 per week

■ BTB201 THE HUMAN ENVIRONMENT II

This subject encourages the understanding of human behaviour by examination of relevant theories and processes, and skill acquisition and practical applica-

tion 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

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 major discipline) – Town and Country Planning, Landscape Architecture, Architecture, Interior Design, Industrial Design.

Credit Points: 10 **Contact Hours:** 5 per week

■ BTB203 ENVIRONMENTAL STUDIES II

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

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

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

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

■ BTB220 ERGONOMICS I

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

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 carcass. 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

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 encompasses theories of and development in art, design and perception. The studio exercises, to which most of the 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:** 8 per week

■ BTB301 THE HUMAN ENVIRONMENT III

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

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

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

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 sunlight 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

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: 16 **Contact Hours:** 6 per week

■ BTB315 MANUFACTURING TECHNOLOGY I

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

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. Lecture topics will include systems and people; person-machine-system models; human capabilities; hearing and signal detection theory; vision.

Prerequisite: BTB220

Credit Points: 6 **Contact Hours:** 2 per week

■ BTB331 FURNITURE & FITTINGS I

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; upholstery, materials, properties and techniques; the role of fabrics and textiles in interior design.

Credit Points: 4 **Contact Hours:** 2 per week

■ BTB335 INTERIOR TECHNOLOGY I

Upgrades the technical drawing skills developed in BTB235 and introduces students to the building codes and by-laws regulating the design and construction of building interiors at the domestic level; addresses

various technological issues such as the evolution of building materials and the evaluation of material performance and suitability.

Credit Points: 14 **Contact Hours:** 5 per week

■ BTB340 SITE MEASUREMENT

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

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

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

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

■ BTB345 INTRODUCTION TO ECOLOGY

Basic plant taxonomy, classification and the physiological processes of plants; the interrelationships of plants, animals (including man) and the environment; populations and population regulation; limiting factors, inter and intra specific competition and predation; life history patterns in plants and animals; the concept of the niche; resources, competition and dynamics of plant communities; ecosystems and ecosystem energetics.

Credit Points: 8 **Contact Hours:** 4 per week

■ BTB346 GRAPHIC COMMUNICATION

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: 6 **Contact Hours:** 3 per week

■ BTB400 DESIGN II

This subject aims to develop the design process in order to facilitate the capacity for application of available technologies and philosophies, consistent with encouragement of individual freedom in the forging of intrinsic and innovative 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.

Prerequisite: BTB300

Credit Points: 20 **Contact Hours:** 6 per week

■ BTB401 THE HUMAN ENVIRONMENT IV

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

■ BTB403 ENVIRONMENTAL STUDIES – ENVIRONMENTAL IMPACTS

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

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

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

■ BTB408 DESIGN SCIENCE

The quantity and quality of light and daylight in buildings; solar variation in cities and in and around buildings; macro and micro climatic conditions are considered and their evaluation for design. Throughout the course as each of these units are covered students are given opportunity to conduct experiments and test models. The subject consists of

lecture and practical work used for assessment in conjunction with assignment work.

Credit Points: 4 **Contact Hours:** 2 per week

■ BTB409 COMPUTER TECHNIQUES

Development of understanding, awareness, and appreciation of the use of computers in a variety of areas as aids in data analysis and presentation, and of basic skills to input, manipulate, and analyse output; the appropriate use of computers and statistical analysis of data in decision making in physical, social and economic areas; the range of information systems; usefulness of the computer as a tool in landscape architecture and planning; the variety of areas where information systems and statistical analysis can assist decision making. The subject will be orientated towards actual use of computers to ensure student experience in all phases of the process (input, manipulation, output, analysis and presentation).

Credit Points: 4 **Contact Hours:** 2 per week

■ BTB410 BUILDING CONSTRUCTION II

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

■ BTB411 LANDSCAPE ECOLOGY

The broad division of the earth in relation to climate and soils – bionics, formations, alliances, associations and societies; the ecosystem concept and its development and application at various geographic scales; the plant community as an expression of ecosystems; energy and water balance; concept of community ecophysiology and growth equations; vegetation classification in Australia and its functional significance; ecological biogeography of Australian vegetation; classification of landscape – concepts of biogeographic regions, provinces, land systems and land units; landscape structure – patches and corridors and the ideas of matrix and network; analysis of landscape structure and function; significance for nature conservation planning; landscape ecology and the practice of planning and landscape architecture.

Credit Points: 8 **Contact Hours:** 3 per week

■ BTB414 POPULATION & URBAN STUDIES

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 of 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

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

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, workspace design, noise, stress, vibration, legal aspect, safety and product liability.

Credit Points: 2 **Contact Hours:** 1 per week

■ BTB431 FURNITURE & FITTINGS II

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

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

An introduction to the basic economic problem of scarcity. Production possibilities are outlined together with various types of economic regimes. A simple macroeconomic 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 microeconomic 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

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

■ BTB442 QUANTITIES & COSTS

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

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 Hours:** 2 per week

■ BTB451 ARCHITECTURAL INTERIOR SYSTEMS I

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:** 2 per week

■ BTB500 DESIGN III

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 methodologies 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

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 model-making and choice of materials.

Credit Points: 4 **Contact Hours:** 2 per week

■ BTB510 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.

Prerequisite: BTB410

Credit Points: 17 **Contact Hours:** 6 per week

■ BTB511 LANDSCAPE CONSTRUCTION

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

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

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

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

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

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

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: 8 **Contact Hours:** 3 per week

■ BTB547 LAND USE GENERATION

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

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

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 **Contact Hours:** 2 per week

■ BTB556 MARKETING

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

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

This subject is essentially microeconomic although the global and national macroeconomic 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: 3 **Contact Hours:** 1 per week

■ BTB562 REPORT PREPARATION

Formal writing techniques, including reports, instructions, proposals, specifications, correspondence and essays. Report writing. Structure and content of reports. Summaries and subdivision of material. Precise use of tables, charts, and illustrations in written 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

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

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: 6 **Contact Hours:** 2 per week

■ BTB571 PLANT RECOGNITION & REQUIREMENTS

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

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.

Prerequisite: BTB500

Credit Points: 20 **Contact Hours:** 6 per week

■ BTB609 LAW OF THE BUILT ENVIRONMENT

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

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.

Prerequisite: BTB510

Credit Points: 14 **Contact Hours:** 6 per week

■ BTB617 BUILDING SERVICES II

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

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

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

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

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 landscapes, 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

Case studies of successful solutions to environmental problems (eg, 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.

Credit Points: 2 **Contact Hours:** 1 per week

■ BTB644 APPLIED ENVIRONMENTAL SCIENCE

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.

Credit Points: 6 **Contact Hours:** 3 per week

■ BTB645 GRADING

Techniques of land surface manipulation including the construction of platforms for building, car parks, 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.

Credit Points: 4 **Contact Hours:** 3 per week

■ BTB646 LAND DEVELOPMENT II

Continuation of BTB546. Land development projects, their financial, marketing and local authority requirements; the housing industry, firm and industry developments and current trends in these areas; the requirements of community, public and utility services are considered.

Credit Points: 7 **Contact Hours:** 3 per week

■ BTB647 LAND USE POLICIES

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

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

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: 2 **Contact Hours:** 1 per week

■ BTB650 IMPACTS & ASSESSMENT

Forms of impact assessment and analysis considering ecological, social and economic issues; various statutory systems, especially those pertaining in Queensland and under Federal legislation; an analysis of the ecological processes which structure and maintain the major aquatic and terrestrial ecosystems as a background to assessing impact of human activities – urbanisation, resource exploitations, mining and other forms of landscape change.

Credit Points: 5 **Contact Hours:** 2 per week

■ BTB653 VISUAL COMMUNICATION IV

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 ELECTIVE (PLANNING)

Any approved subject selected from the undergraduate programs of the Faculty of Built Environment and Engineering, normally one of the Landscape Architecture courses. In special circumstances the elective may be selected from courses offered in other faculties of QUT or in another approved university or college.

Credit Points: 3 **Contact Hours:** 2 per week

■ BTB655 CAD FOR INDUSTRIAL DESIGNERS

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

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

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

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

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

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

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

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

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**

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), and 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**

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**

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 'Kunstlerischen Grundsätzen' of Camillo Sitte, the Garden City movement, Le Corbusier and Modernism, Rowe 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:** 2 per week

■ **BTN301 CONSERVATION & RE-USE IN URBAN DESIGN**

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**

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**

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**

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**

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. Multicultural aspects and host culture implications.

Credit Points: 3 **Contact Hours:** 1 per week

■ **BTN401 URBAN DESIGN COMPUTER APPLICATIONS**

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

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 (eg, 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

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: Adelaide, 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

The role of feasibility 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

Each student will be required, with tutorial guidance, to prepare a dissertation on an individually selected topic approved by the Course Coordinator. 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 Coordinator, this subject shall be undertaken as a final semester subject.

Credit Points: 24 **Contact Hours:** 7 per week

■ BTN601 PRESCRIPTIVE SUBJECT FOR URBAN DESIGN

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 Coordinator on the basis of the students' qualifications and experience.

Credit Points: 9 **Contact Hours:** 3 per week

■ BTN701 URBAN DESIGN RESEARCH ELECTIVES I

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 Coordinator. 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 Built Environment and Engineering: 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: 6 **Contact Hours:** 2 per week

■ BTN702 URBAN DESIGN RESEARCH ELECTIVES II

See BTN701.

Credit Points: 15 **Contact Hours:** 3 per week

■ CEB102 CIVIL ENGINEERING

Lectures and field visits aimed at introducing the student to the profession of civil engineering, its scope and variety, and its many branches.

Credit Points: 3 **Contact Hours:** 1.5 per week

■ CEB184 ENGINEERING MECHANICS I

The study of bodies in static equilibrium under the action of forces; 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; introduction to stress and strain.

Credit Points: 7 **Contact Hours:** 3 per week

■ CEB185 ENGINEERING MECHANICS II

Fundamental principles of structural mechanics and the application of computer programming to the same, ie, stress, strain and elasticity; elastic compatibility; simple beam theory including the flexure formula and the shear stress formula; torsion of circular sections; stresses in thin walled pressure vessels; hydrostatics.

Co-requisites: CEB184 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ CEB192 INDUSTRIAL EXPERIENCE I

Students should engage in at least five weeks' employment, approved by the Head of School. For

details see the School's Industrial Experience Handbook.

Contact Hours: 5 weeks

■ CEB201 STEEL STRUCTURES

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 will be discussed. Site visit and laboratory testing may be included.

Prerequisite: CEB185

Co-requisites: CEB281[R], CEB282[R]

Credit Points: 4 per semester

Contact Hours: 1.5 per week

■ CEB202 CONCRETE STRUCTURES I

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: CEB281[R], CEB282[R]

Credit Points: 4 per semester

Contact Hours: 1.5 per week

■ CEB220 CIVIL SYSTEMS I

Computer applications in Civil Engineering Science; hardware and software integration within the data logging environment.

Prerequisites: CSB191, MAB193, CEB185

Co-requisites: CEB252, CEB260

Credit Points: 6 **Contact Hours:** 3 per week

■ CEB231 CONCRETE TECHNOLOGY

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

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:** 3 per week

■ CEB241 SOIL MECHANICS II

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

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.

Prerequisite: CEB185

Co-requisites: MAB493, CEB282 [R]

Credit Points: 5 **Contact Hours:** 3 per week

■ CEB260 FLUID MECHANICS

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.

Prerequisites: CEB185, MAB193

Credit Points: 7 **Contact Hours:** 3 per week

■ CEB281 STRENGTH OF MATERIALS

Extension of elastic theory from engineering mechanics into more complex states of stress and shape; composites; stress strain transformations; unsymmetrical sections; shear flow; shear centre; torsion; theories of failure; stress concentrations and fatigue.

Prerequisite: CEB185

Credit Points: 5 **Contact Hours:** 2 per week

■ CEB282 STATICS

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-requisite: CEB184 [R]

Credit Points: 2 **Contact Hours:** 1 per week

■ CEB291 CIVIL ENGINEERING MATERIALS

Physical, chemical and engineering properties of common civil engineering materials; ferrous and non-ferrous 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

■ CEB292 INDUSTRIAL EXPERIENCE II

Students should engage in at least five weeks' employment, approved by the Head of School. For details see the School's Industrial Experience Handbook.

Contact Hours: 5 weeks

■ CEB304 CIVIL ENGINEERING DESIGN I

Design project work involving the use of steel and reinforced concrete, geotechnical and highway designs; the influence of construction method to design; preparation of design calculations and sketches with the help of design aids and computer software; the development of problem-solving skills.

Prerequisites: CEB201, CEB202, CEB241

Co-requisites: CEB253, CEB354, CEB291

Credit Points: 8 per semester

Contact Hours: 4 per week

■ CEB305 CONSTRUCTION PLANNING & ECONOMICS

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

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

Credit Points: 7 **Contact Hours:** 3 per week

■ CEB307 CONSTRUCTION PRACTICE

Basic procedures of civil engineering construction; 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

Highway geometry including vehicle performance and human factors as they relate to road geometry, geometric design, geometric coordination 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, CEB291, CSB191, CEB231

Co-requisites: MAB493, CEB240

Credit Points: 6 **Contact Hours:** 3 per week

■ CEB313 TRAFFIC ENGINEERING

Traffic theory including traffic behaviour, models, traffic management analysis including unsignalised and signalised intersections, street lighting, signs and markings, barriers and parking; traffic studies and transport planning procedures.

Prerequisite: MAB493 **Co-requisite:** CEB312

Credit Points: 6 **Contact Hours:** 3 per week

■ CEB341 GEOTECHNICAL ENGINEERING I

Soil slope stability analysis by limit equilibrium, drained and undrained conditions; rock mechanics: rock properties and shear strength, application to simple slope stability models; pile foundations: analysis for vertical load soil capacity and settlement estimates; site investigation and in-situ determination of soil properties.

Prerequisite: CEB241

Credit Points: 6 **Contact Hours:** 3 per week

■ CEB353 PRINCIPLES OF STRUCTURES I

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

■ CEB354 STRUCTURAL ENGINEERING II

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 III

Structural analysis of determinate structures under moving loads using influence lines for beams and trusses, the application of plastic analysis techniques to the analysis of beam, frame and slab structures.

Prerequisite: CEB281

Co-requisites: MAB893, CEB354

Credit Points: 6 **Contact Hours:** 3 per week

■ CEB360 HYDRAULIC ENGINEERING I

The applications of fluid mechanics to pipe and open channel flow, flow measurement and hydraulic machinery; 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

■ CEB361 HYDROLOGY

Introduction to 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

Introduction to hydraulic engineering for surveyors, fluids and fluid flow in pipes and channels; flow measurement; hydraulic models; pumps and pump characteristics.

Prerequisite: MAB199 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ CEB370 PUBLIC HEALTH ENGINEERING I

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

■ CEB392 INDUSTRIAL EXPERIENCE III

Students should engage in at least five weeks' employment, approved by the Head of School. For details see the School's Industrial Experience Handbook.

Contact Hours: 5 weeks

■ CEB393 ENGINEERING INVESTIGATION & REPORTING I

The appropriate techniques of investigation and reporting on civil engineering processes.

Prerequisite: CMB108

Credit Points: 3 **Contact Hours:** 2 per week

■ CEB401 DESIGN PROJECT

Students work in groups to produce initial studies and outline designs of typical civil engineering projects. Students are required to 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

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

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

Continuation of CEB304, with topics covering primarily civil engineering design, ie, municipal civil/structural projects. Field visits are required.

Prerequisites: CEB341, CEB304, CEB231

Co-requisites: CEB460, CEB470

Credit Points: 6 per semester

Contact Hours: 3 per week

■ CEB406 STRUCTURAL APPLICATIONS

Analysis, design, supervision of construction and performance of structures using 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

Understanding and applying advanced civil engineering software; methods of error checking and model validation.

Prerequisites: CEB220, CEB241, CEB260, CEB460, CEB355

Credit Points: 3 **Contact Hours:** 1 per week

■ CEB430 BUILDING CONSTRUCTION

General introduction to building techniques and principles; building construction from foundations to fitting out for low and high-rise structures including appropriate building regulations.

Prerequisite: CEB305

Credit Points: 3 **Contact Hours:** 2 per week

■ CEB440 GEOTECHNICAL ENGINEERING I

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

■ CEB453 PRINCIPLES OF STRUCTURES II

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 [R]

Credit Points: 2 **Contact Hours:** 1 per week

■ CEB460 HYDRAULIC ENGINEERING II

Hydraulics with particular emphasis on unsteady flow, movable boundary hydraulics, hydraulic models and hydraulic design of structures. Topics include: steady 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

Development of principles taught in CEB370 to enable functional design of treatment units to be undertaken; an introduction to sewerage and water reticulation.

Prerequisite: CEB370

Credit Points: 5 **Contact Hours:** 3 per week

■ CEB491 PROJECT (CIVIL)

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: Students must normally be in final year of course; however students in the penultimate year of their course may be given special permission to attempt CEB491.

Co-requisites: CEB393, CEB492

Credit Points: 9 per semester

Contact Hours: 3 per week

■ CEB492 ENGINEERING INVESTIGATION & REPORTING II

Verbal presentation techniques of civil engineering investigation topics. Each student is required to prepare a report and deliver a half hour lecture on a civil engineering investigation topic.

Prerequisite: CEB393

Credit Points: 3 **Contact Hours:** 1 per week

■ CEB501 CIVIL ENGINEERING PRACTICE I

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

Examination of existing practice and technology in the construction industry; 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

Hydrology; rainfall, stream flow measurement; hydraulic design of drainage; soil mechanics for surveys; 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 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ CEB505 PROJECT MANAGEMENT & ADMINISTRATION

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.

Prerequisite: CEB305

Credit Points: 6 **Contact Hours:** 3 per week

■ CEB506 CIVIL ENGINEERING PRACTICE II

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

In depth focus on two aspects of transport engineering – rural road upgrading and small urban area transportation planning/road needs requirement, including 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, assignment, model calibration, future year modelling, evaluation and selection of road needs, sensitivity analysis.

Co-requisite: CEB512

Credit Points: 6 **Contact Hours:** 3 per week

■ CEB512 TRANSPORT ENGINEERING I

Land use/transport interaction; trip generation; trip distribution; mode choice; transport operations analysis; transport economics; transport capacity; urban road planning principles; urban transit planning; railway, aviation and bulk commodity systems design; advanced pavement design techniques.

Prerequisites: CEB313

Credit Points: 6 **Contact Hours:** 3 per week

■ CEB520 FINITE ELEMENT METHODS

Finite element, finite difference and similar numerical techniques; theoretical and modelling considerations 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

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; which includes compression, vertical bending, lateral bending and shear; walls include solid, hollow, cavity and diaphragm; vertical prestressing.

Prerequisites: CEB355, CEB306

Credit Points: 6 **Contact Hours:** 3 per week

■ CEB541 GEOTECHNICAL ENGINEERING II

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

Development of marginal lands: traffickability; embankments on soft soil; preloading; vertical drainage; vibroflotation; dynamic compaction and other methods of deep foundation improvement; rock ex-

cavation 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

Widens and deepens experience in the structural design area; with emphasis 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

Co-requisite: CEB405

Credit Points: 6 **Contact Hours:** 3 per week

■ CEB553 PRINCIPLES OF STRUCTURES III

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: CEB453

Credit Points: 2 **Contact Hours:** 2 per week

■ CEB560 HYDRAULIC ENGINEERING III

Selected topics in water engineering, 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

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

Solid waste management (of domestic, commercial and industrial wastes); general principles of industrial liquid waste management.

Co-requisites: CEB470

Credit Points: 6 **Contact Hours:** 3 per week

■ CEB659 PRINCIPLES OF STRUCTURES IV

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 [R]

Credit Points: 4 **Contact Hours:** 2 per week

■ CEB701 CIVIL ENGINEERING QUANTITIES I

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, compaction, and dredging); roadworks (survey,

bulk excavation and filling, pavement construction, kerbing, culverts); and bridges (types of structures, foundations, prestressed concrete); brief introduction to computer applications such as earthwork calculations etc.

Credit Points: 4 **Contact Hours:** 2 per week

■ CEB801 CIVIL ENGINEERING QUANTITIES II

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, open cuts, earthworks, earth dams).

Prerequisite: CEB701 [R]

Credit Points: 4 **Contact Hours:** 1.5 per week

■ CEP107 CONSTRUCTION MANAGEMENT & ECONOMICS

The management of operational features of municipal practice; engineering economics; contracts; plant and labour considerations of concern to the municipal engineer and manager.

Credit Points: 8 **Contact Hours:** 2 per week

■ CEP109 MUNICIPAL LAW & REGULATIONS

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

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

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

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 ENGINEERING

Characteristics of liquid wastes; the effect of liquid wastes 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

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

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

Traffic flow theory and traffic management; development of computer analysis routines for urban intersection design, their background and applications.

Credit Points: 8 **Contact Hours:** 2 per week

■ CEP218 TRANSPORTATION ENGINEERING

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

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

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

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

Drainage engineering of interest to municipal engineers, road and railway designers, irrigation and general civil engineers; 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

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

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: 18 per semester

Contact Hours: 8 per week

■ CET120 CIVIL SYSTEMS I

Introduction to hardware and operating systems of personal computers; wordprocessors, spreadsheets and databases used for civil engineering applications; introduction to high level languages.

Credit Points: 7 **Contact Hours:** 3 per week

■ CET135 ENGINEERING MECHANICS

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

■ CET180 CIVIL DRAFTING PRACTICE A

Short, practical exercises to cover the highest possible range of drafting experience commensurate with the first year student's stage of development.

Co-requisite: MET120

Credit Points: 3 **Contact Hours:** 3 per week

■ CET190 CIVIL ENGINEERING MATERIALS

Properties of common ferrous and nonferrous metals and alloys, timber, plastics, bitumen and asphaltic concrete; welding processes and defects, corrosion mechanisms and prevention and evaluative testing procedures; quality control and selection of engineering materials.

Credit Points: 7 **Contact Hours:** 3 per week

■ CET195 CIVIL ENGINEERING I

Civil engineering: the profession, organisation and work options; measurement in civil engineering; maintenance of standards, role of NML and NATA; technical writing, reports, letters etc; mathematical techniques applicable to relevant examples.

Credit Points: 7 **Contact Hours:** 3 per week

■ CET235 LABORATORY PRACTICE A

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

Stress, direct flexure, shear in beams and shafts; combined stress conditions; deflections in beams and trusses.

Prerequisite: CET135

Credit Points: 7 **Contact Hours:** 3 per week

■ CET286 CIVIL OFFICE PRACTICE

The preparation and layout of civil engineering drawings; 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

Further experience in civil engineering design drafting/drawing, supplementing that undertaken in CET286.

Prerequisite: MET120 **Co-requisite:** CET286

Credit Points: 3 **Contact Hours:** 3 per week

■ CET306 FIELD PRACTICE IA

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 per week

■ CET365 HYDRAULIC ENGINEERING

Properties of fluids; simple hydrostatics; fundamental characteristics and equations of fluid flow; pipe and open channel flow and hydraulic measurements; laboratory work on basic fluid behaviour and instrumentation.

Prerequisite: CET135

Credit Points: 7 **Contact Hours:** 3 per week

■ CET387 CIVIL ENGINEERING DRAFTING A

Further experience in municipal engineering design drafting/drawings, additional to that undertaken in CET585.

Prerequisite: CET286 **Co-requisite:** CET585

Credit Points: 3 **Contact Hours:** 3 per week

■ CET405 FIELD PRACTICE IIA

Field visits and laboratory workshops on many aspects of civil engineering construction.

Credit Points: 3 **Contact Hours:** 3 per week

■ CET420 CIVIL SYSTEMS II

Computer file management; error recovery; networking; pre and post processing in CAD environment; software installations and data acquisition.

Prerequisite: CET120

Credit Points: 3 **Contact Hours:** 3 per week

■ CET435 CONCRETE PRACTICE

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

Undertaking of a substantial project in the student's chosen field. 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

Elements of road construction and maintenance; road pavement types; design and construction; 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

Preparation of municipal engineering drawings including roadworks and stormwater drain exercises; State and local authority standards; projects will involve varying amounts of design computations and at least one example involves computer usage; introduction to quantity takeoff; 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

An individually designed program including designs, reports and investigations in the area of sanitary engineering.

Prerequisite: The student must have completed 72 credit points.

Credit Points: 21 **Contact Hours:** 9 per week

■ CET606 CONSTRUCTION MANAGEMENT

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

Identification and classification of soils; testing methods required; compaction of soil, soil permeability, 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

Principles of structural design; design in structural steel, detailing of elements; design of concrete members, detailing of elements.

Prerequisites: CET135, CET255, CET435

Credit Points: 7 **Contact Hours:** 3 per week

■ CET703 CIVIL ENGINEERING PRACTICE I

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: Students must have completed 72 credit points.

Credit Points: 7 **Contact Hours:** 3 per week

■ CET704 CIVIL CONSTRUCTION PRACTICE

Principles of temporary works design; form work, false work and scaffolding; shoring, dewatering, excavation and earthworks; plant introduction to the Construction Safety Act and Regulations.

Credit Points: 7 **Contact Hours:** 3 per week

■ CET707 MUNICIPAL ENGINEERING

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.

Prerequisite: CET815

Co-requisites: CET565, CET775

Credit Points: 7 **Contact Hours:** 3 per week

■ CET708 SPECIFICATIONS & ESTIMATES

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

Current systems and practices in occupational safety and health programs, the industrial relations system in Australia, and the 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

Testing work 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

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: CET190

Credit Points: 7 **Contact Hours:** 3 per week

■ CET775 PUBLIC HEALTH ENGINEERING

Design construction and operation of water supply and sewerage systems, materials and equipment; pumping station layout and operation; basic principles of water quality control; treatment plant construction, layout and operation.

Prerequisite: CET365

Credit Points: 7 **Contact Hours:** 3 per week

■ CET776 EQUIPMENT OPERATION & MAINTENANCE

Principles and practice of the operation and maintenance of equipment in water and wastewater treatment plants; overview of plant; motors, engines, pumps, compressors and generators; rotary and recirculating 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

Principles of unit processes of water and wastewater treatment; methods of operational control of these processes.

Prerequisites: CET365, CET775, CHA140

Credit Points: 7 **Contact Hours:** 3 per week

■ CET787 STRUCTURAL ENGINEERING DRAWING

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

The student is required to undertake a substantial project in his/her 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: Students must have completed 72 credit points.

Credit Points: 7 **Contact Hours:** 3 per week

■ CET802 CIVIL ENGINEERING PRACTICE II

See CET703.

Prerequisite: Students must have completed 72 credit points.

Credit Points: 7 **Contact Hours:** 3 per week

■ CET815 ROAD LOCATION & DESIGN

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

■ CET838 ADVANCED LABORATORY TESTING II

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.

Credit Points: 7 **Contact Hours:** 3 per week

■ CET856 ADVANCED CONSTRUCTION TECHNIQUES

Continuation of CET606. History, planning and programming including critical paths; contracts; cranes; selection and safety; case studies and testing estimating.

Prerequisite: CET606

Credit Points: 7 **Contact Hours:** 3 per week

■ CET876 PLANT OPERATION & MAINTENANCE

The operation and maintenance requirements of water quality treatment plants; 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

Continuation of CET777. 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

Using the VAX780 mainframe and personal computers for civil and structural drawing presentation.

Prerequisite: CET286

Credit Points: 7 **Contact Hours:** 3 per week

■ CET888 STRUCTURAL DRAWING & DESIGN

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

Credit Points: 7 **Contact Hours:** 3 per week

■ CET894 COMPUTATIONS A

Calculations involving aspects of civil and structural engineering; computer-aided design; planimeters; technical reports.

Co-requisite: SVT306

Credit Points: 3 **Contact Hours:** 3 per week

■ CHA111 LABORATORY TECHNIQUES

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

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

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

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: CHA111

Credit Points: 6 **Contact Hours:** 3 per week

■ CHA230 CHEMISTRY OF INORGANIC MATERIALS

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

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

Credit Points: 8 **Contact Hours:** 3 per week

■ CHA250 ORGANIC CHEMISTRY I

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

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

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

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

Credit Points: 6 **Contact Hours:** 3 per week

■ CHA320 CHEMICAL PROCESS PRINCIPLES I

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

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

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: CHA230 CHA250, CHA320

Credit Points: 8 **Contact Hours:** 3 per week

■ CHA370 PHYSICAL CHEMISTRY II

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

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

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.

Credit Points: 4 **Contact Hours:** 2 per week

■ CHA520 CHEMICAL PROCESS PRINCIPLES II

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: CHA320

Credit Points: 8 **Contact Hours:** 3 per week

■ CHA550 ORGANIC CHEMISTRY III

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

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-requisite: CHA350

Credit Points: 8 **Contact Hours:** 3 per week

■ CHA610 INDUSTRIAL ANALYSIS

A course involving the use of both qualitative (semi-micro) 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

■ CHA670 PHYSICAL CHEMISTRY III

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

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

■ CHB001 INTRODUCTORY CHEMISTRY

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, enthalpy, heat of reactions, organic chemistry.

Credit Points: 6 **Contact Hours:** 3 per week

■ CHB002 INTRODUCTION TO ENGINEERING CHEMISTRY

The foundations of the principles of chemistry; the basic concepts of stoichiometry; properties of the elements of the periodic table; chemical equilibria, acids and bases. The subject is offered for engineering students without sound achievement in Chemistry and serves as the foundation for CHB344 and CHB346.

Credit Points: 2 **Contact Hours:** 1 per week

■ CHB101 CHEMISTRY IA

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

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

■ CHB110 ANALYTICAL CHEMISTRY I

Introduction to analytical chemistry. 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 precipitometric 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

■ CHB142 CHEMISTRY I

Inorganic Chemistry: modern atomic theory, electronic configuration of the elements, covalent bonding of simple molecules; Organic Chemistry: reactions of the carbon-hydrogen bond, carbon-halogen bond, the carbon-carbon double bond, carbon-carbon triple bond and aromatic substitutions; Physical Chemistry: chemical equilibrium; equilibria in electrolyte solutions, properties of liquids, phase rule, liquid mixtures and colligative properties. Incompatible with CHB101, CHB102

Credit Points: 12 **Contact Hours:** 6 per week

■ CHB150 ORGANIC CHEMISTRY I

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 week

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

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

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

A course in practical chemistry covering experimental aspects of inorganic, physical and organic chemistry that expands on the techniques covered in CHB102.

Prerequisite: CHB102 **Co-requisite:** CHB201

Credit Points: 6 **Contact Hours:** 3 per week

■ CHB210 ANALYTICAL CHEMISTRY II

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

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 coordination chemistry.

Prerequisite: CHB180

Credit Points: 6 **Contact Hours:** 3 per week

■ CHB242 CHEMISTRY II

Inorganic Chemistry: classification and properties of the elements, shapes of molecules, bonding in solids and coordination chemistry; Organic Chemistry: the reactions of alcohols, phenols and ethers, amino compounds, aldehydes, ketones, carbohydrates, the acyl group (carboxylic acids and derivatives), amino acids and proteins, chemical structure, biological activity,

and colour in organic compounds; Physical Chemistry: the gas laws for ideal and non-ideal systems, first law of thermodynamics and thermochemistry, galvanic cells including applications to the determination of pH and potentiometric titrations, and colloids.

Prerequisite: CHB142

Credit Points: 12 **Contact Hours:** 6 per week

Note: This subject is not compatible with CHB201, CHB202; credit may not be retained for more than one of these subjects.

■ CHB250 ORGANIC CHEMISTRY II

Alkenes and alkynes – electrophilic and free radical addition. Benzene – aromatic character, electrophilic substitution. Alcohols, phenols and ethers – nucleophilic reactions, oxidation. 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

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

Calculation of titration curves for redox, precipitometric 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

Introduction to chemical process industries. Economic significance. Flowsheets. Unit operations: basic concepts, a study of range of unit operations selected from: comminution, classification, leaching, solid-fluid 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

■ CHB340 SPECTROSCOPY

The theory of rotational, vibrational and electronic spectroscopy. Instrumentation and spectroscopic methods of analysis.

Prerequisites: CHB180 + CHB110 or CHB101 + CHB102 + CHB201

Credit Points: 8 **Contact Hours:** 3 per week

■ CHB344 ENGINEERING CHEMISTRY M

Specialised chemistry subject designed for mechanical engineers includes such topics as fuels and their combustion; the chemistry of lubricants and lubrication; corrosion and its prevention and water treatment processes.

Prerequisite: CHB002 or equivalent

Credit Points: 4 **Contact Hours:** 2 per week

■ CHB346 ENGINEERING CHEMISTRY C

Specialised chemistry subject designed for civil engineers and includes such topics as PH control; the chemistry of materials; polymers and composites; corrosion and its prevention.

Prerequisite: CHB002 or equivalent

Credit Points: 4 **Contact Hours:** 2 per week

■ CHB350 ORGANIC CHEMISTRY III

This unit continues the study of 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; credit may not be retained for both.

■ CHB351 ORGANIC CHEMISTRY IIIC

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:** 4 per week

Note: This subject is not compatible with CHB350; credit may not be retained for both.

■ CHB370 PHYSICAL CHEMISTRY III

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

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.

■ CHB382 CHEMISTRY II

Biochemical relevance of pH; instrumental analytical techniques used in the pathology laboratory; the coordination chemistry of biological systems; dyes and stains; the thermodynamics and kinetics of biological systems.

Prerequisites: CHB142, CHB242

Credit Points: 4 **Contact Hours:** 2 per week

■ 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 or CHB310.

■ CHB427 CHEMICAL TECHNOLOGY IV

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

A course of lectures and practical work relating to the topics of crystal field theory, solution chemistry of metal complexes, principles of bioinorganic chemistry and the chemistry of post-transition elements.

Prerequisites: CHB230 or CHB201 + CHB202

Credit Points: 8 **Contact Hours:** 3 per week

■ CHB440 SEPARATION METHODS

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

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

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

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

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; credit may not be retained for both.

■ CHB510 INSTRUMENTAL ANALYSIS

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

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

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 carbon-carbon bond forming procedures, selectivity and control, design of industrial organic processes, significance of reaction mechanism and steric 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

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:** 3 per week

Note: This subject is not compatible with CHB550; credit may not be retained for both.

■ 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:** 3 per week

Note: This subject is not compatible with CHB570; credit may not be retained for both.

■ CHB590 MATERIALS SCIENCE

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

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 CHB530, CHB551 and CHB571

Credit Points: 20 **Contact Hours:** 10 per week

■ CHB610 ADVANCED ANALYSIS

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

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

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

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

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 mechanisms. Precious metals: the 'platinum group', silver and gold; high purity chemicals. Redox systems: hydrogen peroxide and related peroxo-compounds; dithionates and the oxosulphur system; sodium borohydride and other complex hydrides.

Prerequisite: CHB530

Credit Points: 8 **Contact Hours:** 3 per week

■ CHB640 CHEMISTRY VI

Celoid chemistry and rheology; Fourier transform, laser and time resolved spectroscopy; interpretative ¹³C 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 ¹³C 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

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

Visits to selected industries, for example, petroleum, industrial chemicals, sugar.

Prerequisite: CHB501

Credit Points: 2 **Contact Hours:** 1 per week

■ CHB671 SOLIDS & SURFACES

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: CHB671 is not compatible with CHB640; credit may not be retained for both.

■ CHB690 ADVANCED MATERIALS SCIENCE

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

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

■ CHD148 CHEMISTRY

Introduction to general and organic chemistry as applied to biological systems. Topics covered include: the basic chemical concepts of atoms, molecules; molecules, ions; chemical bonding and equations; solution chemistry; acid bases and chemical equilibrium; gases and nuclear chemistry; the chemistry of biological components such as proteins, carbohydrates, lipids enzymes and nucleic acids.

Credit Points: 6 **Contact Hours:** 3 per week

■ CHP120 BIOCHEMICAL ENGINEERING

The application of biological 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; bioreactors; and scale-up. Other topics are selected from animal cell culture, protein biotechnology, downstream processing and bio-process economics.

Credit Points: 10 **Contact Hours:** 6 per week

■ CHP700 PROJECT

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

■ CHP701 ADVANCED TOPICS IN CHEMISTRY I

■ CHP702 ADVANCED TOPICS IN CHEMISTRY II

A selection of advanced topics in the areas of physical, organic and inorganic chemistry. The topics offered will reflect the expertise of the academic staff as well as the needs of the students. Both subjects will be assessed at the end of the year.

Credit Points: 12 **Contact Hours:** 6 per week

■ CHP703 ADVANCED ANALYSIS

Separation methods: gas chromatography including capillary techniques, liquid chromatography including ion exchange and size exclusion chromatography; electrophoresis; electrochemical methods: principles

of interfaced electrochemistry, the ion double layer, electro capillarity, electrode kinetics, evaluation of kinetic parameters; surface analysis: ESCA, SIMS and related techniques.

Credit Points: 6 **Contact Hours:** 2 per week

■ CHP704 ADVANCED MATERIALS SCIENCE B

Physical and chemical properties of advanced materials; 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: 6 **Contact Hours:** 2 per week

■ CHP705 ADVANCED SPECTROSCOPY

A theoretical background in spectroscopy and an appreciation of the applications, limitations and practice of modern methods of spectrochemical analysis. Topics may include: molecular spectrophotometry; atomic absorption and atomic emission; x-ray fluorescence; x-ray diffraction; nuclear magnetic resonance spectroscopy and electron spin resonance spectroscopy; Fourier transform spectroscopy; mass spectrometry; advanced techniques in electron microscopy and electron probe microanalysis.

Credit Points: 6 **Contact Hours:** 2 per week

■ CHS200 CHEMISTRY

Introduction to general and organic chemistry; atoms, molecules, ions; chemical bonding; chemical reactions and equations; solution chemistry; acids, bases and chemical equilibrium; gases; electrochemistry and nuclear chemistry; basic chemistry of organic compounds, aliphatic and aromatic

Credit Points: 6 **Contact Hours:** 3 per week

■ CMA133 COMMUNICATION TECHNIQUES

An introduction to the techniques of technical writing appropriate to applied science vocations. Technical report writing, writing for non-technical audiences. 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.

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 the public, persuasive 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 and writing by introducing students to a wide range of theories, methods, and approaches. 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

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

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

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

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

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 sub-cultures; the family; stratification; groups and communities; formal organisations; social deviance; social change.

Credit Points: 12 **Contact Hours:** 3 per week

■ CMB134 COMMUNICATION

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 and presentation, editing; and speech preparation.

Credit Points: 4 **Contact Hours:** 2 per week

■ CMB135 COMMUNICATION FOR ENGINEERS

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

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 contemporary 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 fiction 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 electives in the Humanities area in later semesters.

Prerequisite: CMB104

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; techni-

ques for slide-tape and video production. Production of a sound synchronised slide-tape program.
Credit Points: 12 **Contact Hours:** 3 per week

■ CMB191 FUNDAMENTALS OF PHOTOGRAPHY

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, CMB104

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: CMB102

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 interrelationship 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 film 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

■ CMB300 SOCIOLOGY FOR HEALTH PROFESSIONALS

Theories and concepts of sociology are used in the analysis of the social context of health care; theoretical perspectives; social organisation; social differences and issues; the application of sociological theory to aspects of Australian society including: class and stratification, migration, sub-culture and ethnicity, crime and deviance, groups and organisations, social change.

Credit Points: 6 **Contact Hours:** 3 per week

■ CMB307 ADVANCED PROFESSIONAL WRITING

The current principles and practices in writing professional documents; the content, style and presentation of professional documents; audience considerations and influences of new technology on corporate writing culture.

Prerequisite: CMB104

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. Students' 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 CMB102

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 rais-

ing 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.

Prerequisite: CMB359

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.

Prerequisites: CMB363, 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

■ CMB400 SOCIOLOGY OF HEALTH & ILLNESS

The social environment of health and illness and cultural aspects of health care practices; cultural definitions of health and illness; life-style factors and health; life cycle and health crises; health and social problems; health promotion; preventive care and the Medical Model; bureaucratisation and health care delivery; the health care professions.

Prerequisite: CMB300

Credit Points: 6 **Contact Hours:** 3 per week

■ CMB422 PROFESSIONAL SPEECHWRITING

The context for speeches – environmental, relational and linguistic; issues for targeting speeches; rhetorical 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; modern 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: CMB104

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 & 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. 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 wpm 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 – eg mass media, specialist, the arts, with reference to cost effectiveness; criteria used in selection of the appropriate mediated form; the technology and development of film and television from the magic lantern to satellite broadcasting; principles of production; realising the intention of program, conversion of script to mediated form, roles and responsibilities, budgeting and production management; future directions in video; principles and practice of directing; editing; pictorial composition, lighting, use of colour, camera control; sound and sound recording; animation and special effects.

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: CMB161

Credit Points: 12 Contact Hours: 3 per week

■ CMB466 NARRATIVE CONCEPTS

The interrelationship between improved technical means – lenses, editing techniques, cameras and sound and how this increases the creative scope of film makers; national preferences in narrative communication. The course content will not be simply restricted to film but will also discuss elements of the graphic arts, the novel, dramatic forms and social phenomena in the various national groupings.

Credit Points: 12 Contact Hours: 3 per week

■ CMB521 COMMUNICATION & PUBLIC 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 mainframe 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 quantitative factors affecting media selection and use, market targeting, researching the media plan, planning media strategy, coordinating 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, client-company 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 theoretical 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 client 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.

Prerequisites: CMB552, CMB464
Credit Points: 12 **Contact Hours:** 3 per week

■ CMB561 FILM & TELEVISION SCRIPT WRITING

Wide scope approach to writing through analysis of such forms as features, documentaries and drama; depth approach to writing through analysis of audiences and the industry; the writer's commitment to social responsibility; use of film in television and public relations; analysis of scripts and script requirements in contemporary markets.

Prerequisite: 10 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

■ CMB564 TELEVISION STUDIO/POST PRODUCTION

Television studio production and post production of news/current affairs, corporate, documentary and drama; the roles of: producer, director, art director, camera and audio operators, vision mixers, floor manager, technical director, production assistant and on-line editor.

Prerequisite: CMB662
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 contribute to the 4EB news and current affairs throughout the semester. 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.

Prerequisite: CMB462 and 60 wpm Teeline
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 VIDEO DOCUMENTARY PRODUCTION

Orientation to the history and development of documentary production; various types of film and television materials; approaches to the production of a documentary, different approaches to script development. The place of editing in the production, affective elements; the scope and limitations of creative editing; evolution of an editing plan; correlation of image, sound, music, pace and tone in the total design; editing practice in workshops using materials provided on tape. Production of a documentary or corporate video.

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 program. 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 FILM DRAMA PRODUCTION

Analysis of the process and effects of film drama; budgeting and production management; direction and script interpretation; film editing techniques; advanced production techniques; working in crews to

produce a significant film production. Students are required to discuss script preparation with the lecturer in the semester prior to undertaking this subject.

Prerequisite: CMB592 - Film and Television majors only

Credit Points: 12 **Contact Hours:** 3 per week

■ CMB664 FILM & VIDEO BUSINESS

The role of the producer and executive producer in the packaging and financing of film and television production including corporate, training and documentary, grant films, features and mini-series; achieving balance in the above-the-line, below-the-line and marketing costs. Sources of finance: corporate sponsors, corporate clients, investors, pre-sales, government grants, Film Finance Corporation; methods of obtaining finance, insurance, completion guarantees, legal and accounting requirements; script breakdowns, budgeting and production management. Students will be required to produce a significant corporate or documentary video.

Prerequisite: CMB662

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 group campaigns.

Prerequisite: CMB351 or CMB651

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 time contribute to 4EB news and 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.

Prerequisites: CMB371 and CMB672

Credit Points: 12 **Contact Hours:** 3 per week

■ CMD100 SOCIOLOGY

Introduction to the sociological concepts and theories with which to analyse the impact of the social environment on human behaviour; the social and cultural diversity of Australian society; socialisation; the family as a social institution; culture; social control; social deviance and social change.

Credit Points: 6 **Contact Hours:** 3 per week

■ CMD200 SOCIOLOGY OF HEALTH AND ILLNESS

Social aspects of health and illness in the community; health care in the family group and community; patient-professional roles; stress and disease; social aspects of ageing; preventive health care and the medical model; health and social problems; bureaucratisation and health care delivery.

Credit Points: 6 **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.

Credit Points: 12 **Contact Hours:** 3 per week

■ 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 settings.

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 cooperation 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 problem-solving, 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

■ CMN832 RESEARCH COLLOQUIUM

Consolidates research knowledge and skills, refines the research strategy for the student's thesis project

and assists with the planning and writing of the thesis report. Further material on research methods and procedures will be covered as necessary for students to undertake their thesis research.

Prerequisite: CMN409 or CMN831

Co-requisite: IFN001

Credit Points: 8 **Contact Hours:** 2 per week

■ 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.

Prerequisites: CMN710, CMN711, CMN720

Credit Points: 24 (each)

■ CMN950 THESIS

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

■ CMP110 JOURNALISTIC WRITING

This is a news writing and reporting subject designed for Graduate Diploma students to learn to think like journalists; to evaluate events for their potential news value; to interview and perform other reporting tasks and to write news stories. News values; reporting techniques; and journalistic writing; style and convention.

Credit Points: 12 **Contact Hours:** 3 per week

■ CMP125 ORGANISATIONAL COMMUNICATION

Focuses on how people relate with each other in modern organisational settings, from small businesses to multinational organisations in the public and private sector. It has a problem-solving, interdisciplinary approach to communication up, down and across the organisation, among divisions and work units, among different professional and vocational specialties and within work teams. It is designed to help students prepare for internships and other work experience, as well as eventual professional employment.

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, advertising, marketing and management also form part of this subject. Major topics include philosophy of fundraising, its role in society, budget, fundraising, major gift and capital campaigns, planned giving, researching and establishing prospect bases, procedures of solicitation, team building of boards and volunteers, role of foundations.

Credit Points: 12 **Contact Hours:** 3 per week

■ CMP401 COMMUNICATION THEORY 1

Examination of the two of the main approaches to the study of communication theory – behavioral theory based on empirical research and systems interactive theory. Topics include the process and effects of mass communication; role of the media in society; theories of violence in the media; systems thinking; theories of human interaction and involvement network theory and analysis.

Credit Point: 12 **Contact Hours:** 3 per week

■ CMP402 COMMUNICATION THEORY 2

The subject builds on the cultural studies theory that students have learned in three subjects with cultural studies components in the undergraduate degree by teaching advanced cultural studies (10 weeks) and also provides an understanding of advanced rhetoric (3 weeks). It also leads into the cultural studies strand of the masters degree. Theories examined will include advanced semiotics, structuralism, discourse analysis and rhetoric. Applications will largely be to film and television. Readings will be from theorists such as Stuart Hall, Saussure, Eco, Wollacott and Hawkes. Survey of classical rhetoric and application of contemporary rhetoric.

Credit Points: 12 **Contact Hours:** 3 per week

■ CMP403 COMMUNICATION RESEARCH METHODOLOGIES

This subject provides a foundation for understanding the empirical research studies students will read in the honours degree and for conducting empirical research for masters and doctoral theses should they choose to undertake graduate studies. Theory and research – developing research models and hypotheses, review of basic research principles – measurement issues, operationalising concepts, validity and reliability, sampling, questionnaire design, codebook, univariate statistics, simple cross-tabulations, experimental designs, tests of significance and measures of association; statistical analysis – multivariate techniques (including table elaboration, multiple regression, analysis of variance, path analysis, factor analysis); evaluation research, historical and comparative research, ethical issues in research, exercises in scale construction; using SPSS-x for analysis of survey and experimental results.

Credit Points: 12 **Contact Hours:** 3 per week

■ CMP404 ADVERTISING SEMINAR

The major topics in advertising and promotion management; the questions of purpose, planning, profit contribution and selective communication strategies as they apply to audience and market segmentation; the consistent relationship of the promotional component to the advertising component and how these two communication functions need to be integrated for prime efficiency. Research methods and media planning will be considered against the basic thrust of this binary communication model.

Credit Points: 12 **Contact Hours:** 3 per week

■ CMP405 JOURNALISM SEMINAR

The subject provides a professional focus in the Honours / Masters Qualifying Year through the exploration of theories, methodologies, models and topics appropriate for individual academic research projects in journalism. Students do literature reviews in preparation for dissertations and theses. Topics include five concepts of the press; the new world information order; the social contract in Australia; empirical research in journalism; the press and

governmental processes; the press and public opinion; legal and ethical issues in journalism.

Credit Points: 12 **Contact Hours:** 3 per week

■ **CMP406 PUBLIC RELATIONS SEMINAR**

To provide honours students with a focus on research within the public relations field. Students will examine theories and methodologies that have been applied to public relations and develop an understanding and direction for their honours dissertation. The subject will examine the function and practice of public relations. Practitioners will be invited to present issues which are relevant to research interests. Australian and overseas studies in public relations and related research will be drawn together to develop paths appropriate to student dissertations. Areas of study would include: Organisational Communication, Community Relations, Law, Journalism/Media, Advertising/PR/Marketing mix, Ethics/Persuasion.

Credit Points: 12 **Contact Hours:** 3 per week

■ **CMP407 COMMUNICATION POLICY ENVIRONMENT**

The public policy environment is associated with all aspects of communication practice and with all communication industries; social, legal, political and technical environment in Australia and neighbouring countries; policy structures and processes; current issues; the participating and critical views.

Credit Points: 12 **Contact Hours:** 3 per week

■ **CMP408 COMMUNICATION TECHNOLOGIES & SOCIETY**

The history of technology; technological determinism; technological assessment; social impacts; new technologies – digital, microprocessors, fibre and satellites; convergence new applications – ISDN, HDTV, electronic publishing, computer-supported – cooperative work.

Credit Points: 12 **Contact Hours:** 3 per week

■ **CMP409 DISSERTATION**

This subject is the culmination of the honours degree in that students apply the theory and research material covered in earlier subjects to explore in some depth an applied or theoretical topic in the field of communication. The dissertation will be based on information from secondary sources and will consist of a written report of approximately 10,000 words in length.

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 Hour:** 3 per week

■ **CMP500 ADVANCED COMMUNICATION SEMINAR**

This subject provides a professional focus through the exploration of theories and methodologies appropriate for individual academic research projects in advertising, journalism or public relations. Students do work that is a preparation for their dissertation.

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

■ **CMP590 FUNDRAISING CAMPAIGNS**

Practical experience in planning and implementing a fundraising campaign; planning a complete fundraising program; defining relevant constituencies and pinpointing appropriate vehicles for linking to these target markets; budgeting and managing campaign elements; working successfully with Boards and volunteers where appropriate; and evaluating fundraising efforts. Students will undertake a practical group project in the form of a small scale fundraising program. Major topics covered in the supporting lectures include: strategic planning, advanced management, financial issues, ethics and evaluation techniques.

Prerequisite: CMP352

Credit Points: 12 **Contact Hours:** 3 per week

■ **CSA165 COMPUTING**

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**

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 interrelationship 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**

Establishes a basis for the major computing topics to be covered in later subjects; provides students with a disciplined and structured approach to algorithm design, and introduces a range of problem-solving 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

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; structured program design techniques; advanced algorithms and methods of proving program correctness.

Prerequisite: CSB100

Credit Points: 9 **Contact Hours:** 3 per week

■ CSB155 INTRODUCTION TO COMPUTING

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

■ CSB181 INTRODUCTION TO COMPUTER SCIENCE

Provides a disciplined and structured approach to algorithm design and problem-solving methods; 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:** 3 per week

■ CSB191 INTRODUCTION TO COMPUTING

Introduction to technical computer programming; teaching programming techniques for the writing of correct and efficient programs for limited, but typical engineering problems; 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

The study of abstraction: data abstraction as a technique for dealing with complex data interrelationships, and procedural abstraction as a way 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; 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

Organisation of simple computer systems, and the way in which hardware provides the basic facilities for the machine; 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

Analysis of algorithms, the various styles of programming language and the abstractions which they support; 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

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

Provides students a thorough knowledge of FORTRAN and C, and teaches the solving of advanced scientific (eg, mathematical and engineering) problems.

Prerequisite: CSB110

Credit Points: 9 **Contact Hours:** 3 per week

■ CSB259 LABORATORY COMPUTING I

Computer organisation; hardware, software; computer-programming including 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

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

Continuation of the material introduced in CSB155; 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

Physical organisation of, the control and flow of information in, and the representation of data in, a computer system; 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

Organisation of simple computer systems, and the way in which the hardware provides the basic facilities for the machine; 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

Provides a thorough knowledge of FORTRAN, and teaches the solving of advanced scientific (eg, mathematical and engineering) problems; 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:** 3 per week

■ CSB290 FOUNDATIONS OF COMPUTING I

Data abstraction as a technique for dealing with complex data interrelationships, and procedural abstraction as a means of expressing complex operations on such structures; concept of the abstract data type (ADT); important examples of ADTs and associated algorithms; analysis of algorithmic complexity; and proofs of correctness.

Prerequisite: CSB280

Credit Points: 12 **Contact Hours:** 4 per week

■ CSB291 INTRODUCTION TO FORTRAN

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

Analysis of algorithms; the various programming languages styles; and the abstractions which they support; 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: CSB280

Credit Points: 12 **Contact Hours:** 4 per week

■ CSB294 COMPUTER PROGRAMMING

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

Structure of operating systems and real-time software; 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; considerable emphasis on practical work.

Prerequisites: CSB200, CSB201 OR CSB282, CSB290

Credit Points: 9 **Contact Hours:** 3 per week

■ CSB302 SOFTWARE ENGINEERING

Techniques essential to the production of software systems which are reliable, within budget, fully documented, and well tailored to their uses; practical work to apply these techniques in the organisation; management and development of software projects with emphasis on modern programming languages supporting software engineering (eg, Ada, Modula-2).

Prerequisite: CSB200 or CSB290

Credit Points: 9 **Contact Hours:** 3 per week

■ CSB311 ADVANCED COMPUTER ARCHITECTURES

Organisation of contemporary computer systems, and the variety of different structures which may be used for specific tasks; 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

■ CSB319 SPECIAL STUDIES

■ CSB320 SPECIAL STUDIES

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

The nature of computer graphics hardware and software; 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 CSP213 or CSB283

Credit Points: 9 **Contact Hours:** 3 per week

■ CSB323 DATA SECURITY

Combines the subjects of complex computer systems and data communications; builds upon the data communications and computer systems material; provides 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

Artificial intelligence in the computing industry; aspects of artificial intelligence which have given rise to commercial products; 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

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.

Prerequisite/Co-requisite: CSB210 or CSP214 or CSB292

Credit Points: 9 **Contact Hours:** 3 per week

■ CSB326 SYSTEMS PROGRAMMING

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

Selected theoretical and/or practical work to complement and/or supplement other subjects being studied.
Credit Points: 3 **Contact Hours:** 1 per week

■ CSB482 PROGRAMMING LANGUAGES & STRUCTURES

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

The structure and syntax of well-designed programs as well as programming techniques for use in electronics, communications and electrical engineering, using examples from the C and UNIX.

Prerequisite: CSB190 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ CSB960 PROJECT WORK

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:** 4 per week

■ CSB970 PROJECT WORK

Students, either individually or in small groups, undertake a substantial project relevant to the needs of industry and designed to provide 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 two-thirds of the Bachelor of Applied Science (Computing).

Credit Points: 12 **Contact Hours:** 4 per week

■ CSN100 THEORY OF COMPUTING I

Formal properties of programs; 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.

Prerequisite: CSB210 (or equivalent)

Credit Points: 12 **Contact Hours:** 3 per week

■ CSN110 COMPILER CONSTRUCTION

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: CSP212 (or equivalent)

Credit Points: 12 **Contact Hours:** 3 per week

■ CSN200 COMPUTER SECURITY

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

Provides a thorough understanding of the rationale for distributed computer systems, their domain of application and the principles 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

Artificial intelligence in the computing industry; aspects of artificial intelligence which have given rise to commercial products; background research efforts which promise to have major impact on the use of computers in the near future.

Prerequisite: CSB324 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ CSN300 THEORY OF COMPUTING II

Formal language theory; investigation of various types of simple automata and pushdown automata and their relation to context free languages; discussion of some aspects of computational complexity.

Prerequisite: CSP212 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ CSN310 PARALLEL PROCESSING

The modelling of parallel systems and the design methodologies used in their construction; examination of a range of applicable software systems and methodologies; 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

The formal mechanisms required in the design of secure systems; study of formal models of secure systems, eg, Bell La Padula model; the relationship between formal methods of computer science and the design of formally verifiable computer systems.

Prerequisites: CSN100, CSN200

Credit Points: 12 **Contact Hours:** 3 per week

■ CSN330 NATURAL LANGUAGE PROCESSING

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

In-depth treatment of topics of contemporary translator construction in a practical setting; code generation methods for advanced computer architectures.

Prerequisite: CSN110

Credit Points: 12 **Contact Hours:** 3 per week

■ CSN350 ADVANCED GRAPHICS I

Advanced level extension of the material in the undergraduate curriculum; 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

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

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

Study and use of efficient data structures; 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

Computer organisation; the nature and role of system software and the nature of microcomputers 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

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: CSP112

Credit Points: 12 **Contact Hours:** 3 per week

■ CSP213 SCIENTIFIC APPLICATIONS

Provides a thorough knowledge of FORTRAN and C, and teaches the solving of advanced scientific (eg, mathematical and engineering) problems.

Prerequisite: CSP112

Credit Points: 12 **Contact Hours:** 3 per week

■ CSP214 PROGRAMMING LANGUAGES & STRUCTURES

Continues the material introduced in the prerequisite subjects; 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

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

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

A first course on computers, including brief introductions to operating systems and utilities; design of algorithms and their implementation in a structural language.

Credit Points: 7 **Contact Hours:** 3 per week

■ EEB101 CIRCUITS & MEASUREMENTS

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

Introduction to 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 week

■ EEB203 CIRCUIT ANALYSIS

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[R]

Credit Points: 5 **Contact Hours:** 3 per week

■ EEB206 INDUSTRIAL EXPERIENCE I

Students should engage in at least five weeks' employment, approved by the Head of School; for the employment to be recognised, students must submit an industrial experience record form which has been completed by both the student and the employer.

Contact Hours: 3 weeks

■ EEB209 ELECTRICAL ENGINEERING IIM

The basic principles of microprocessors, microprocessor systems, electrical machines, power control and tariffs.

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB272 DIGITAL PRINCIPLES

Binary variables; number systems; Boolean 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

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

■ EEB302 ELECTROTECHNOLOGY

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 [R], EEB203 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB303 NETWORK THEORY I

The basic theory of network analysis covering Laplace and Fourier analysis; four terminal network theory, frequency behaviour and transient response of networks.

Prerequisites: EEB203 [R], MAB193 [R]

Co-requisite: MAB493

Credit Points: 7 **Contact Hours:** 3 per week

■ EEB361 SIGNALS & SYSTEMS

A detailed study of Fourier theory applied to signals; an overview of systems and their representation, response of systems to signals.

Prerequisites: EEB203 [R], MAB193 [R]

Co-requisite: MAB493

Credit Points: 7 **Contact Hours:** 3 per week

■ EEB371 ELECTRONIC DEVICES

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 [R]

Credit Points: 5 **Contact Hours:** 3 per week

■ EEB372 SEQUENTIAL LOGIC

Flip-flops, counters; shift registers; asynchronous and synchronous sequential machines; realisation of sequential machines using PROMs, GALs etc.

Prerequisite: EEB272[R] **Co-requisite:** EEB371

Credit Points: 7 **Contact Hours:** 3 per week

■ EEB400 ELECTRICAL POWER SYSTEMS

Introduction to electrical power systems calculations; the technology of overhead lines and cables; elementary electrical engineering economics.

Prerequisite: EEB302 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB401 NETWORK THEORY II

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 [R] **Co-requisite:** EEB361

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB404 ELECTRICAL MACHINES

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 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB406 INDUSTRIAL EXPERIENCE II

Students should engage in at least five weeks' employment, approved by the Head of School; for the employment to be recognised, students must submit

an industrial experience record form which has been completed by both the student and the employer.

Contact Hours: 5 weeks

■ EEB430 ENGINEERING FIELDS

Electrostatic and magnetic fields; Maxwell's equations and electromagnetic waves.

Prerequisites: MAB193 [R], PHB132 [R], PHB232 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB471 ELECTRONICS

A detailed study of transistor circuits and their applications; circuits, fundamental to the understanding of integrated circuit amplifiers, are studied in detail.

Prerequisite: EEB371 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EEB472 MICROPROCESSORS

Microprocessor architecture; instruction sets, assembly language programming; memories, input/output devices and interrupt systems.

Prerequisite: EEB372 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB473 INTEGRATED CIRCUITS

The fundamental theory of operation of integrated circuits and the generalised concepts of feedback in electronic circuits; various operational amplifier configurations; oscillators and timing circuits.

Prerequisite: EEB471 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB520 CONTROL ENGINEERING

Survey of measurement transducers, amplifiers, signal processors and final control elements; selection of system components; application of microcomputers to closed-loop control; examples of closed-loop systems; system transfer function and time domain performance.

Prerequisite: EEB302 [R] **Co-requisite:** EEB401

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB531 ELECTRICAL POWER TRANSMISSION

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 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB553 ELECTRICAL POWER EQUIPMENT

Ratings of equipment; insulation, distribution switchgear and protection; a.c. generators; power measurement and metering; power conversion.

Prerequisite: EEB400 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB561 ANALOGUE COMMUNICATIONS

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 [R], EEB303 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB562 TRANSMISSION & PROPAGATION

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 [R], EEB430 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB573 INDUSTRIAL ELECTRONICS

The study of a wide range of modern electronic devices and circuits with particular emphasis to industrial application.

Prerequisite: EEB471 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB587 DESIGN I

General principles of electronic circuit and electrical equipment design and the realisation of typical electronic circuits and equipment.

Prerequisites: EEB401 [R], EEB361 [R], EEB400 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB591 SYSTEMS PROGRAMMING LANGUAGES

The syntax and facilities of the C programming language are studied and applied to systems programming.

Prerequisite: EEB472 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB600 STARTING A TECHNOLOGY BASED BUSINESS

Introduction to business structures; forming a business team; marketing and market research; 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

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 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB602 SIGNAL PROCESSING

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 [R], EEB401 [R], MAB893 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB606 INDUSTRIAL EXPERIENCE III

Students should engage in at least five weeks' employment, approved by the Head of School; for the employment to be recognised, students must submit an industrial experience record form which has been completed by both the student and the employer.

Contact Hours: 5 weeks

■ EEB620 CONTROL SYSTEMS ANALYSIS

Time-domain, frequency-domain, and complex-domain 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 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB621 ADVANCED CONTROL SYSTEMS

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 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB652 POWER ELECTRONICS

Review of modern switching components, characteristics and device control methods; principles of operation of controlled rectifiers and chopper techniques for d.c. motor control; quasquare 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.c. motor drive control strategies; harmonic analysis and waveform modelling analysis.

Prerequisite: EEB573 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EEB661 INFORMATION THEORY & NOISE

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 [R], EEB361

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB662 MICROWAVE & ANTENNA TECHNOLOGY

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 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EEB741 POWER SYSTEMS ANALYSIS

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

Substation engineering; protection of plant; substation earthing; system overvoltages; insulation coordination; HV switchgear.

Prerequisite: EEB531 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EEB761 STATISTICAL COMMUNICATIONS

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 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EEB788 DESIGN II

Design principles and practice of more complex electronic circuits and electrical equipment and systems used in industry.

Prerequisites: EEB587 [R], EEB561 [R], EEB520 [R], EEB400 [R]

Credit Points: 8 **Contact Hours:** 3 per week

■ EEB789 PROJECT

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 per semester

Contact Hours: 6 per week

■ EEB820 ENGINEERING MANAGEMENT

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

■ EEB821 PRODUCTION TECHNOLOGY & QUALITY

The methodology of electronic system design; the range of production processes in electronic manufacture; the quality control procedures required in electronic manufacturing at both prototype and full production stages.

Prerequisites: EEB587 [R], EEB788 [R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB887 DESIGN III

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 [R] EEB602 [R], EEB620 [R], EEB472 [R], EEB400 [R], EEB971 [R], or EEB531 [R]

Co-requisites: EEB968 or EEB742

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB888 DESIGN IV

System design techniques and practice in these techniques on typical electronic systems and power systems, taking into account such factors as realiability, reliability, complexity, economic considerations and optimisation.

Prerequisite: EEB887 [R]

Credit Points: 10 **Contact Hours:** 3 per week

■ EEB890 ADVANCED INFORMATION TECHNOLOGY TOPICS

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, super computing and parallel processing.

Prerequisite: EEB591 [R]

Credit Points: 8 **Contact Hours:** 3 per week

■ EEB901 INDUSTRIAL EXPERIENCE I

Students should engage in at least five weeks' employment, approved by the Head of School. For the employment to be recognised, students must submit

an industrial experience record form which has been completed by both the student and the employer.

Contact Hours: 5 weeks

■ EEB902 INDUSTRIAL EXPERIENCE II

Students should engage in at least five weeks' employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form which has been completed by both the student and the employer.

Contact Hours: 5 weeks

■ EEB903 INDUSTRIAL EXPERIENCE III

Students should engage in at least five weeks' employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form which has been completed by both the student and the employer.

Contact Hours: 5 weeks

■ EEB922 COMPUTER CONTROLLED SYSTEMS

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 [R], EEB620 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EEB944 POWER STATION ENGINEERING

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

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

Power reticulation in building; energy management; fire protection systems; illumination technology; air-conditioning plant; building supervising and control systems, lifts.

Prerequisite: EEB553 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EEB961 COMMUNICATION TECHNIQUES

Modern communication techniques including switched networks, broadcast, point-to-point systems; microwave and optical links; radio navigation and radar; associated electronic devices.

Prerequisite: EEB661 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EEB962 MICROWAVE SYSTEMS ENGINEERING

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 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EEB967 DIGITAL COMMUNICATIONS

The theory and applications of digital communications technology. Baseband digital signals; pulse

shaping, signal regeneration, measurement techniques, and the digital coding of analogue signals; such applications as digital radio systems, digital communication technology.

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB968 DIGITAL SIGNAL PROCESSING

Adaptive digital filtering and applications, spectral estimation techniques, speech analysis and synthesis; realtime implementation of signal processing systems.

Prerequisite: EEB602

Credit Points: 7 **Contact Hours:** 3 per week

■ EEB971 APPLIED ELECTRONICS

Analysis of the characteristics and applications of a variety of integrated devices; emphasis on the errors and quality of design.

Prerequisite: EEB573[R]

Credit Points: 6 **Contact Hours:** 3 per week

■ EEB972 INTEGRATED ELECTRONIC TECHNIQUES

Commercially available integrated circuits and their typical applications in industry; design rules, limitations and methods of VLSI fabrication.

Prerequisite: EEB573 [R] **Co-requisite:** EEB602 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EEP101 ALGORITHMS FOR CONTROL & SIGNAL PROCESSING

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

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

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

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

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

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

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

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

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

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 (total)

■ EET100 ELECTRICAL ENGINEERING COMPUTATIONS

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

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

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 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET270 ELECTRONICS I

An introduction to the fundamentals of electronic devices and transistor circuits; the characterising and application of 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 [R], EET100 [R]

Co-requisite: EET211

Credit Points: 7 **Contact Hours:** 3 per week

■ EET350 ELECTRICAL ENGINEERING III

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 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET420 CONTROL SYSTEMS I

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 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET460 TELECOMMUNICATIONS

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 [R], EET211

Credit Points: 7 **Contact Hours:** 3 per week

■ EET490 COMPUTER PACKAGES

Use of computer packages such as word processors, spreadsheets, database packages and commonly used engineering packages such as Matlab and Spice hardware interconnection.

Credit Points: 7 **Contact Hours:** 3 per week

■ EET500 ELECTRICAL TECHNOLOGY

Introduction to electric motors, generators, transformers and three phase systems.

Credit Points: 6 **Contact Hours:** 3 per week

■ EET522 CONTROL SYSTEMS II

Process control system terminology and symbols; 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 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET560 COMMUNICATIONS ENGINEERING I

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 [R], EET460 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET570 ELECTRONICS II

Introduction to integrated circuit amplifiers and their applications; power amplifiers; optoelectronic devices; voltage regulators and a survey of semiconductor switching devices.

Prerequisite: EET270 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET590 MICROPROCESSOR SYSTEMS

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

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 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET650 ELECTRICAL EQUIPMENT

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 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET676 DIGITAL ELECTRONICS

Introduction to 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

Introduction to the integrated circuit approach to electronic systems design; further treatment of integrated 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 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET690 COMPUTER ORGANISATION

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 multiple data machines.

Prerequisites: CST390 [R], EET676 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET720 MODERN CONTROL TECHNOLOGY

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 [R] **Co-requisite:** EET522 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET737 TRANSMISSION & PROPAGATION

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 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET753 TESTING & COMMISSIONING TECHNIQUES

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 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET760 COMMUNICATIONS ENGINEERING II

Sampling, reconstruction, spectra; quantisation, dynamic range and noise; PCM methods and circuitry, companding; delta modulation; digital transmission, TDM, FDM, modulation methods. Data coding for error correction and data communication protocols.

Prerequisite: EET560 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET790 COMPUTER PROGRAMMING I

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

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 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET840 SUBSTATIONS AND PROTECTION SYSTEMS

Insulation coordination 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 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET860 COMMUNICATIONS TECHNOLOGY

Broadcast radio and TV, terrestrial and satellite; specialised broadcast systems, eg, 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 [R], EET676 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET870 INDUSTRIAL ELECTRONICS

Electronic devices and circuits associated with industrial control systems; power switching devices and their applications are studied together with electronic measurement systems and their associated transducers.

Prerequisite: EET570 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ EET880 DESIGN

The main concepts of electrical designs; 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

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 [R]

Credit Points: 7 **Contact Hours:** 3 per week

■ ENB103 GENERAL ELECTIVE

Studies previously completed by students in areas of business or humanities may be acceptable as a Group A elective; applications to have such studies accepted as meeting the Group A elective requirements are considered on an individual basis.

Credit Points: 4 **Contact Hours:** 2 per week

- **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**

Students should engage in at least 15 weeks' employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form which has been completed by both the student and the employer.

Credit Points: 3 each

Contact Hours: 15 weeks each

■ **ENS100 ENGINEERING SKILLS**

Practical sessions in the each of the four Engineering Schools for three weeks. Civil – working in the concrete laboratory, water laboratory and structures laboratory; Electrical – practical sessions; Mechanical – looking at the combustion engine, an air compressor, the petrol engine; learning welding and casting; Surveying – an introduction; qualitative and quantitative activities in photogrammetry; remote sensing.

Credit Points: 6 **Contact Hours:** 3 per week

■ **ESA310 GEOLOGY**

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

■ **ESB101 EARTH SCIENCE IA**

Basic geologic principles, physical geology, geomorphology, weathering, erosion, river and coastal environments, groundwater, deserts and aeolian processes. Practical work includes exercises based on the interpretation of topographic and geologic maps and aerial photographs. Field excursions to local areas of geological interest.

Credit Points: 8 **Contact Hours:** 3 per week

■ **ESB102 EARTH SCIENCE IB**

Origin and composition of the earth and the solar system; mineralogy; classification and origin of igneous, metamorphic, and sedimentary rocks; structural geology; plate tectonics; economic geology. Practical work includes examination and identification of major rock-forming minerals, economic minerals and rock specimens, structural exercises and map interpretation.

Credit Points: 8 **Contact Hours:** 3 per week

■ **ESB201 HISTORICAL GEOLOGY**

Geologic history of the Earth; interpretation of past geologic events emphasising the geologic development of Australia and the evolution of life; principles of stratigraphy; radiometric dating; paleontology and biostratigraphy. Practical work includes stratigraphic interpretations, study of fossils, and map interpretation. Field excursions to local areas of interest.

Credit Points: 8 **Contact Hours:** 3 per week

■ **ESB220 PRINCIPLES OF MINERALOGY**

Introductory crystallography; fundamentals of crystal chemistry; mineral stability and reactions; crystallisation, growth and habit; geologic framework of minerals; classification of minerals; systematic treatment of the physical, chemical, and structural properties of different mineral groups; practical work includes symmetry, mineral analysis (SEM, TEM, EMP); x-ray diffraction; examination and identification of mineral specimens. Field excursions to sites of mineralogical interest.

Credit Points: 8 **Contact Hours:** 3 per week

■ **ESB311 MANAGEMENT OF EARTH RESOURCES**

As assessment of known Earth resources; their properties, distribution and abundance; use; societal and environmental impact and future alternatives; economic mineral resources; energy sources; water and soil resources; realities and limits of earth resources; resource management; conservation versus exploitation; waste disposal; environmental pollution; future technological developments and their possible effects on earth resources.

Credit Points: 8 **Contact Hours:** 3 per week

■ **ESB317 OPTICAL MINERALOGY & MINERAGRAPY**

The theory and identification of minerals in both transmitted and incident light. Introduction to mineragraphy; theory of reflected light; optical properties of ore minerals; identification of minerals in thin section, polished section, and grain mounts.

Prerequisite: ESB220

Credit Points: 8 **Contact Hours:** 3 per week

■ **ESB357 STRUCTURAL GEOLOGY**

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.

Prerequisites: ESB101, ESB102, ESB201

Credit Points: 8 **Contact Hours:** 3 per week

■ **ESB367 ECONOMIC MINERAL DEPOSITS**

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.

Prerequisites: ESB101, ESB102, ESB220

Credit Points: 8 **Contact Hours:** 3 per week

■ **ESB377 LAND LAW & MINING APPLICATIONS**

Introduction to English 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

■ **ESB397 FIELD TECHNIQUES**

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, ESB201

Co-requisite: ESB357

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB403 GEOCHEMISTRY

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.

Prerequisites: CHB101, CHB102, MAB227

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB417 PETROGRAPHY

The description and classification of igneous, metamorphic, and sedimentary rocks in thin section and hand specimen; optical mineralogy, textures; practical work involves identification of minerals in thin section; description of textures; classification of rocks. Field excursions of short duration are normally required.

Prerequisite: ESB317

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB437 GEOPHYSICS

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: 8 credit points of first level physics and ESB397

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB453 APPLIED GEOMORPHOLOGY

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.

Prerequisite: ESB397

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB487 GEOLOGICAL FIELD STUDIES

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.

Prerequisite: ESB397

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB497 SEDIMENTOLOGY

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

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB517 MINERAL EXPLORATION

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

■ ESB519 GEOLOGY FOR ENGINEERING

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

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.

Prerequisite: ESB403

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB537 EXPLORATION GEOPHYSICS

The reduction and manipulation of geophysical data, and their interpretation in geological terms; field data acquisition and computer modelling. Experience in a variety of geophysical methods is gained during a field excursion.

Prerequisite: ESB437

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB547 IGNEOUS & METAMORPHIC PETROLOGY

The origin, formation, and geologic history of igneous and metamorphic rocks as determined from field and laboratory studies of occurrences, mineral assemblages, rock composition, and texture. Interpretation of rock and mineral compositional diagrams; application of experimental investigations. Practical work examines the petrography and geochemistry of igneous and metamorphic suites. Field excursion.

Prerequisites: ESB417, ESB403

Co-requisite: ESB577

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB557 PETROLEUM GEOLOGY

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 combina-

tion traps; reservoir rock characteristics; use of geophysical, geochemical and radiometric techniques 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.

Prerequisite: ESB497

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB577 FIELD EXCURSIONS

An extended (five or more days) excursion, with the possible addition of weekend 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.

Prerequisite: ESB417 **Co-requisite:** ESB547

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB607 COAL GEOLOGY

Coal properties, classification genesis and analysis; hydro-carbon generation 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

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB617 MINING GEOLOGY

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

■ ESB627 HYDROGEOLOGY

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.

Prerequisite: ESB453

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB647 STRUCTURAL GEOLOGY & GEOTECTONICS

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

■ ESB653 ENGINEERING GEOLOGY

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 histories of various construction projects, including dams, bridges, buildings, roads, railways, tunnels and slopes. Field excursions to appropriate construction sites.

Prerequisites: ESB413, ESB437 and ESB397

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB677 FIELD EXCURSIONS

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 (eg, oral or written examination, seminar etc.).

Prerequisite: ESB577

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB687 GEOLOGICAL INVESTIGATIONS

Students are required to produce an original detailed map of a designated area, collect representative samples, observe and collate relevant information (eg, 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.

Prerequisites: ESB357, ESB517, ESB547, ESB497 and ESB437

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB697 MINING FEASIBILITY STUDIES

Economics of mine development and operation; problem solving involving concepts of value, cash flow, payback, depreciation, annuity, taxation, forecasting and marketing; sampling and tonnage grade calculations, cut-off grade, ore reserves and sensitivity analyses, sources and costs of capital. Practicals utilise computer programs and spreadsheets for DCFROI calculations.

Prerequisite: ESB517

Credit Points: 8 **Contact Hours:** 3 per week

■ ESB699 SELECTED STUDIES IN EARTH SCIENCE

Students are required to complete an assignment that examines in detail a topic in Earth Science. Topics will be selected in consultation with an advisor. Emphasis will be given equally to geological content and communication skills. The assignment will involve extensive literature search. Assessment will be made by written report and oral presentation.

Prerequisite: Completion of second level geology

Credit Points: 2

■ ESP700 PROJECT

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: 48 per semester

■ ESP702 GEOLOGICAL CASE STUDIES

Preparation of case history assignments of one or several projects from inception to completion. This will include the philosophy of the project, project development, project results. The case history should be selected to complement the student's project thesis.

The study includes literature research from published and unpublished sources and if possible, interviews with project personnel. Presentation of the case history may include some or all of the following: relevant maps, sections, geochemical synthesis, and appropriate specimen material. Assessment includes the preparation of a publication quality report and an oral presentation.

Credit Points: 10 **Contact Hours:** 3 per week

■ ESP704 ADVANCED SEDIMENTARY & ENVIRONMENTAL GEOLOGY

Advanced aspects of sedimentology and environmental geology, as related to rational assessment and development of economic resources. The topics that will be addressed include: historical development of sedimentology and environmental geology; sedimentological models (including facies concepts) and their application to basin analysis and mineral/fuel exploration; advanced field and laboratory-based techniques for sedimentological and environmental investigations; economic resources in sedimentary strata; role of sedimentology in scientific assessment of environmental issues, such as land degradation, dryland salting, coastal erosion, fluvial-estuarine siltation and water quality deterioration.

Credit Points: 6 **Contact Hours:** 28 total

■ ESP705 ADVANCED RESOURCE GEOLOGY

Metallogenic epochs and provinces; ore genesis models; advanced basin analysis; isotope geology; fluid inclusions and geothermometry; advanced mineralogy; resource geochemistry; resource petrology – new materials, aspects of special rocks, alteration zones, paragenesis; resource trends, exploration philosophy; resource assessment – geostatistics, pattern drilling methodology.

Credit Points: 6 **Contact Hours:** 28 total

■ ESP706 ADVANCED ENGINEERING GEOLOGY

Principles and scientific basis underlying the theory of engineering geological investigations and the application of modern techniques in analysis and investigation. Coursework is structured around engineering geology thesis topics being pursued in the current year, but includes: application of continuous seismic profiling, engineering behaviour on normally consolidated Holocene sediments, engineering geology of open pit mines, slope and underground opening stability, slope stability in tropical residual soils, geotechnical problems in damsite foundations.

Prerequisite: ESB653 or equivalent

Credit Points: 6 **Contact Hours:** 28 total

■ ESP707 PETROCHEMISTRY

The petrology, geochemistry, and petrogenesis of igneous and metamorphic rocks. Topics may vary according to student interest but will include field, petrologic, geochemical, isotopic and experimental aspects of magma generation and/or metamorphism. Quantitative modelling of magmatic processes using phase chemistry, major and trace element geochemistry, stable and radiogenic isotopes. Petrographic analysis of igneous and metamorphic textures.

Prerequisite: ESB547, ESB403 or equivalent

Credit Points: 6 **Contact Hours:** 28 total

■ ESP708 GLOBAL PLATE TECTONICS

Investigation of recent advances in global plate tectonics; the petrology, sedimentology, structural, geophysical and resource geology of divergent and convergent plate margins; application of plate tectonic concepts to the Australian continent.

Credit Points: 6 **Contact Hours:** 28 total

■ ESP720 ADVANCED TOPICS IN EARTH SCIENCE I

A program of advanced study on a specific geologic topic selected to complement a student's research thesis. Topics may be chosen from the fields of resource geology, igneous petrology, mineralogy, sedimentology, environmental geology, engineering

geology, geochemistry, geophysics, structural geology, regional geology, tectonics. Extensive literature survey is required to prepare a written report upon which the assessment will be made.

Credit Points: 12 **Contact Hours:** 5 per week

■ ESP721 ADVANCED TOPICS IN EARTH SCIENCES II

A program of advanced study on a specific geologic topic selected to complement a student's research thesis. Topics may be chosen from the fields of resource geology, igneous petrology, mineralogy, sedimentology, environmental geology, engineering geology, geochemistry, geophysics, structural geology, regional geology, tectonics. Extensive literature survey is required to prepare a written report upon which the assessment will be made.

Credit Points: 12 **Contact Hours:** 5 per week

■ ESP730 COMPUTER APPLICATIONS IN EARTH SCIENCE

A program of advanced study designed to enhance a student's knowledge and use of computer applications in geological investigations. Assessment is based upon an extensive project.

Credit Points: 12 **Contact Hours:** 5 per week

■ EST219 ENGINEERING GEOLOGY

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: 8 **Contact Hours:** 3 per week

■ IFB880 PROJECT IN INFORMATION MANAGEMENT/SURVEYING

Students 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 per semester

Contact Hours: 3 per week

■ IFN001 ADVANCED INFORMATION RETRIEVAL SKILLS

Consolidates students' knowledge of the strategies and procedures for secondary research, especially using on-line searches and helps them to locate a wide range of published material relevant to their thesis topic. Students use the following modules: the QUT library and other information sources; accessing information through indexes and abstracts; computerised information retrieval; specialised resources; thesis presentation; organising information; evaluating information.

Co-requisite: CMN832

Credit Points: 4 **Contact Hours:** 1 per week

■ IFP222 PROJECT

Students undertake a project in the area of Quality with the aim of 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 sources. It is envisaged that, where appropriate, projects may be jointly supervised by staff of the Schools or Departments involved in the course.

Credit Points: 8 **Contact Hours:** 2 per week

■ **INB001 COMPUTING PRACTICE (N.O.T.E.) I**

Credit Points: 6 **Contact Hours:** 1 per week

■ **INB002 COMPUTING PRACTICE (N.O.T.E.) II**

Credit Points: 6 **Contact Hours:** 1 per week

■ **INB099 ENGLISH FOR ACADEMIC PURPOSES**

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

Semester 1

■ **INB100 PRACTICE I (INJ232)**

■ **INB200 PRACTICE III (CSJ128)**

■ **INB201 PRACTICE III (ISJ210)**

■ **INB202 PRACTICE III (ISJ243)**

Semester 2

■ **INB150 PRACTICE II (INJ232)**

■ **INB250 PRACTICE IV (CSJ128)**

■ **INB251 PRACTICE IV (ISJ210)**

■ **INB252 PRACTICE IV (ISJ243)**

■ **INB302 PRACTICE V (CSJ128)**

Designed to coordinate 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

Semester 1

■ **INB105 PRACTICE IA (INJ232)**

■ **INB125 PRACTICE IA (IFJ222)**

■ **INB155 PRACTICE IIA (INJ232)**

■ **INB205 PRACTICE IIIA (CSJ128)**

■ **INB206 PRACTICE IIIA (ISJ210)**

■ **INB207 PRACTICE IIIA (ISJ243)**

■ **INB225 PRACTICE IIIA (CSJ128)**

■ **INB255 PRACTICE IVA (CSJ128)**

■ **INB256 PRACTICE IVA (ISJ210)**

■ **INB257 PRACTICE IVA (ISJ243)**

■ **INB312 PRACTICE VA (CSJ128)**

Semester 2

■ **INB110 PRACTICE IB (INJ232)**

■ **INB130 PRACTICE IB (IFJ222)**

■ **INB160 PRACTICE IIB (INJ232)**

■ **INB180 PRACTICE IIB (IFJ222)**

■ **INB210 PRACTICE IIIB (CSJ128)**

■ **INB211 PRACTICE IIIB (ISJ210)**

■ **INB212 PRACTICE IIIB (ISJ243)**

■ **INB260 PRACTICE IVB (CSJ128)**

■ **INB261 PRACTICE IVB (ISJ210)**

■ **INB262 PRACTICE IVB (ISJ243)**

■ **INB275 PRACTICE IVA (IFJ222)**

■ **INB281 PRACTICE IVB (IFJ222)**

■ **INB322 PRACTICE VB (CSJ128)**

Designed to coordinate 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-requisites: Core topics in appropriate semester

Credit Points: 6 **Contact Hours:** 2 per week

■ **INB270 DATA COMMUNICATIONS**

The role of data communications and on-line systems in a modern computing environment; the design, implementation and management of data communications networks; 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: CSB100

Credit Points: 9 **Contact Hours:** 3 per week

■ **INB280 INDUSTRIAL TRAINING EXPERIENCE**

Consists of a one-year work experience program. For more information about this program, see the 'Information for All Information Technology Students' at the front of the Faculty's Handbook entry.

Credit Points: 18

■ **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 per week

■ **INB300 PROJECT WORK**

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 Bachelor of Business (Computing) and CMB104

Credit Points: 12 per semester

Contact Hours: 4 per week

■ INB301 PROJECT WORK

Students, either individually or in small groups, undertake a substantial 6 month project relevant to the needs of industry and designed to give insight into industrial requirements. Each student, or group of students, undertakes a different project and is supervised by a member of staff who provides guidance throughout the project.

Prerequisite: Successful completion of the first two years of Bachelor of Business – Computing/Bachelor of Laws joint degree course.

Credit Points: 12

■ INN200 RESEARCH METHODOLOGY

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 a literature search and generally other design aspects of their research project.

Credit Points: 12 **Contact Hours:** Not applicable

■ INN201 RESEARCH METHODOLOGY

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

■ INN202 COMPUTER SECURITY

Ensures that students recognise the requirement to design, implement and manage facilities in a manner consistent with an overall organisational security policy. Development of security plan; risk analysis; access control; cryptography; network security and encryption; key management; database security; secure operating systems and access control. On completion of this subject, students should be able to incorporate security and management controls into information systems in accordance with a formal risk analysis and assessment for the system.

Credit Points: 12 **Contact Hours:** 3 per week

■ INN210 HONOURS PROJECT II

This is a continuation and completion of the research project initiated for INN200.

Prerequisite: INN200

Credit Points: 12 **Contact Hours:** Not applicable

■ INN211 HONOURS PROJECT

This subject is a continuation and completion of the research project initiated for INN201.

Credit Points: 12

■ INN300 MINOR PROJECT

■ INN301 MINOR PROJECT

■ INN302 MINOR PROJECT

■ INN303 MINOR PROJECT

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

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 (eg, deregulation vs regulation).

Prerequisite: INB270 (or equivalent)

Credit Points: 12 **Contact Hours:** 3 per week

■ INN400 MAJOR PROJECT – PART I

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

■ INN401 MAJOR PROJECT

Students may undertake a major project as an alternative to minor projects to pursue in depth a topic of interest in keeping with the course objectives. Project topics are to be determined after discussion between the student and a Faculty Staff Member acting as supervisor.

Prerequisite: Completion of at least 50 per cent of the Master of Information Technology

Credit Points: 48

■ INN450 MAJOR PROJECT – PART II

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

Credit Points: 12 **Contact Hours:** 3 per week

■ INN500 DISSERTATION

Comprises the undertaking and writing up of a significant piece of research work. The research will examine some aspect of concepts and principles dealt with in the course work components of the program. The research topic will be agreed on following discussions between the student and a Faculty staff member who will act as supervisor. Each student will present a seminar on his or her dissertation topic.

Prerequisite: Completion of at least 50 per cent of the Master of Information Technology

Credit Points: 48

■ INP270 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: CSP112 or ISP100

Co-requisite: ISP100 (for students in the Graduate Diploma in Commercial Computing)

Credit Points: 12 **Contact Hours:** 3 per week

■ ISB101 APPLICATION SYSTEMS

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

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 computer-based 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

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

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

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

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 computer-based 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: 12 **Contact Hours:** 4 per week

■ ISB201 INFORMATION SYSTEMS ANALYSIS & DESIGN I

This subject provides a grounding in the methodology and techniques of systems analysis and design.

Prerequisite: ISB102

Credit Points: 9 **Contact Hours:** 3 per week

■ ISB202 DATABASE & PROCEDURAL LANGUAGES

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.

Prerequisites: CSB100, ISB102

Credit Points: 9 **Contact Hours:** 3 per week

■ ISB203 ADVANCED DATABASE

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 on-line 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

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

Methodologies for analysing information resources within an organisation with particular reference to information mapping techniques; comparisons between institutions that concentrate on one information function, and institutions that utilise a range of internal and external functions; the effect of convergent technologies on such use.

Prerequisite: MNB302

Credit Points: 9 **Contact Hours:** 3

■ ISB215 EXTERNAL SOURCES OF INFORMATION

This subject encompasses the scanning of the environment using various information sources, technologies, avenues and methodologies. It will also provide practical skills including on-line 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; on-line searching techniques; storage and retrieval media; computer conferencing.

Credit Points: 9 **Contact Hours:** 3 per week

■ ISB216 POLITICAL & SOCIAL ASPECTS OF INFORMATION TECHNOLOGY

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

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 or ISB283

Credit Points: 9 **Contact Hours:** 3 per week

■ ISB263 INTRODUCTION TO COMPUTERS & INFORMATION SYSTEMS

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

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.

Prerequisite: ISB182

Credit Points: 12 **Contact Hours:** 4 per week

■ ISB283 DATABASE & PROCEDURAL LANGUAGES

This subject introduces the fundamentals and syntax of a procedural computer programming language (eg 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.

Prerequisites: CSB181, ISB182

Credit Points: 12 **Contact Hours:** 4 per week

■ ISB290 INFORMATION SYSTEMS ANALYSIS & DESIGN II

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 system, 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.

Prerequisite: ISB281 or ISB492

Credit Points: 12 **Contact Hours:** 4 per week

■ ISB301 ADVANCED INFORMATION SYSTEMS

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: ISB201 or ISB281

Credit Points: 9 **Contact Hours:** 3 per week

■ ISB302 DATABASE MANAGEMENT

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: ISB202 or ISB283

Credit Points: 9 **Contact Hours:** 3 per week

■ ISB303 OFFICE INFORMATION SYSTEMS

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

Credit Points: 9 **Contact Hours:** 3 per week

■ ISB305 PROJECT

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 of 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.

Credit Points: 12 **Contact Hours:** 4 per week

■ ISB313 EXPERT INFORMATION SYSTEMS

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; and gives some practical experience in developing and implementing information systems containing such techniques; includes discussion on social implications of expert systems.

Prerequisite: ISB202 and ISB210 or ISB283 and ISB290

Credit Points: 9 **Contact Hours:** 3 per week

■ ISB314 INFORMATION SYSTEMS MANAGEMENT

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, evaluation of computing contracts and professional ethics.

Prerequisite: Completion of two-thirds of the relevant Bachelor of Business course

Credit Points: 9 **Contact Hours:** 3 per week

■ ISB316 INFORMATION SUPPORT SYSTEMS

Methods of describing information for the computer database; introduction to principles of content analysis, vocabulary control and thesaurus maintenance of indexing systems; planning and implementation of such systems together with database systems and software upgrades by an information centre, along with the establishment of such a centre and its interactions within an organisation.

Credit Points: 9 **Contact Hours:** 3 per week

■ ISB317 SPECIAL TOPIC – INFORMATION MANAGEMENT

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

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

Credit Points: 9 **Contact Hours:** 3 per week

■ ISB350 MINOR STUDIES

Students will undertake theoretical and/or practical work under supervision. Topics will be related to other coursework.

Credit Points: 3 **Contact Hours:** 1 per week

■ ISB382 MICROCOMPUTER APPLICATIONS

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

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 week

■ ISB392 BUSINESS COMPUTING

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 describe 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

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

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 per week

■ ISB493 BUSINESS COMPUTER PROGRAMMING

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: 12 **Contact Hours:** 3 per week

Note: This subject is not compatible with CSB306 or ISB283; credit may not be retained for both.

■ ISB998 SPECIAL TOPIC – BUSINESS COMPUTING

■ ISB999 SPECIAL TOPIC – BUSINESS COMPUTING

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

Credit Points: 9 **Contact Hours:** 3 per week

■ ISN100 INFORMATION SYSTEMS I

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

■ ISN110 FORMAL SYSTEMS SPECIFICATION

The description of information systems by means of formal languages; the concepts of formal specification, compared to informal specification languages such as Structured English. As well as being taught how to formally specify a system, students will be shown how to prove properties of that system, how to develop an executable implementation of the system and how to prove the equivalence of the two.

Prerequisites: ISB201, ISB302 (or equivalent)

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN120 DATABASE SYSTEMS

Examines aspects of database performance, data distribution and the special problems of storing unformatted data. Database performance is discussed in terms of query optimisation, whereby access statements, such as those written in SQL, are analysed so that they are executed efficiently. The advantages and disadvantages of distributed databases are presented, covering topics such as whether data should be replicated over a number of sites. Also deals with the special requirements of databases which contain unformatted data, such as text, voice and image data.

Prerequisite: ISB302

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN130 OBJECT-ORIENTED SYSTEMS

Object-oriented systems as an alternative to traditional procedurally based systems; looks at their benefits and weaknesses, including key concepts of data abstraction and encapsulation and the techniques of inheritance, polymorphism and genericity. Students learn to identify and design object classes. Builds competence in selection of strategies appropriate to improved systems design leading to lower long-term maintenance costs.

Prerequisite: ISB210

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN150 COMPUTER SECURITY RISK MODELLING

The tasks of identifying, valuing and securing data assets are fundamental to modern information systems security. Those tasks are explored in terms of the current state of computer risk model research and implementation. Several traditional models are compared to demonstrate sources of data for model development: asset identification and evaluation, threat, vulnerability and dependency analysis, and collection of supporting data. Students are introduced to modern risk modelling software and techniques, and are guided in the adoption of appropriate standards and methodologies.

Prerequisites: ISN110, ISB313 (or equivalent)

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN160 KNOWLEDGE-BASED SYSTEMS

This subject assumes a background in conventional systems concepts, programming and database, and an exposure to fundamental expert systems concepts. It explores four major themes in knowledge-based systems: (a) conceptual: problem selection and structure, inference and knowledge representation; (b) technical: declarative and functional programming; (c) pragmatic: improving the yield from existing information bases; and (d) methodological: questions

associated with the definition, design and control of knowledge-based systems.

Prerequisites: ISN110, ISB313 (or equivalent)

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN170 SPECIAL STUDIES

Students are offered the opportunity to study specific topics which are not dealt with elsewhere in the course and which are seen at the time of offering to be significant to business information systems. The subject takes account of the very dynamic nature of the information systems field in allowing treatment of newly emerged topic areas. It also permits utilisation of new specialist knowledge and skills among the Information Systems staff at the time.

Prerequisite: See School announcements

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN180 HUMAN COMPUTER INTERFACE (HCI)

Addresses the most significant issues and activities of the Human Computer Interface (HCI) and software design; includes the perceptual basis to the presentation of visual information, the basic aspects of visual information processing, and facets of representation of knowledge; examines the development of expert systems and how they will change the nature of interaction between person and machine and reviews features of interactions with systems, eg, keyboards through to advanced input modes. On completion of this subject, students should be able to apply principles from the current research in different aspects of HCI interactions and will be aware of future developments possible in this emerging field.

Prerequisite: ISP101

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN190 COMPARATIVE STUDY OF INFORMATION AGENCIES

Philosophies and modes of information provision which apply in different cultures and countries; comparative methods and studies and an investigation of sources relating to information agencies – including both libraries and computer-based information agencies worldwide. Students review and analyse examples of existing studies, services offered by different types of agencies and their community impact, national and international standards of services, the structure of the information professions, professional associations, literature, ethics and legal responsibilities in relation to national information policies and emerging trends in information provision.

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN200 MAJOR ISSUES IN INFORMATION TECHNOLOGY

Explores aspects of Information Technology of great potential significance to Information Systems professionals, such as the status of information system standards, the extent of integration of computer technology and data communications technology, as well as emerging social and ethical considerations with regard to information technology.

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN210 AUTOMATED SYSTEMS MANAGEMENT

Identification of management challenges entailed by automated systems; the development of system specifications and Request for Proposal; evaluation of proposals; contracts and legal responsibilities; staff training and development; the effect on management structure of centralised versus distributed systems and

the implications of introducing/upgrading automated systems.

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN220 BUSINESS COMPETITOR INTELLIGENCE

The use of competitor intelligence to enhance effectiveness of business strategies and the various methodologies and analytical techniques for obtaining and using competitor intelligence in support of strategic planning; competitor intelligence and strategic planning; the interrelationship between intelligence and planning in corporate decision making; the organisation framework; establishing an intelligence collection network; analytical techniques; applications in different strategic environments; and sources and types of competitor intelligence.

Prerequisite: ISB215

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN240 CLASSIFICATION

The theory and practice of the classification of knowledge and its role in the advancement of knowledge; selected schemes and their applications, research into automated classification, and creation of schemes for special situations will be considered.

Prerequisite: ISP432

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN250 THE INFORMATION INDUSTRIES

The nature of the information industries and information policies; the social and legal issues involved in the expansion of these industries; the information industries in the information economy, public policy, Queensland as an information economy; information industry development abroad, Information Law, Intellectual Property, Privacy/Freedom of Information Computer Crime Transborder Data Flow/Sovereignty issues, social justice and equity issues in the information industry and education for the information society.

Prerequisite: ISB216

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN260 EVALUATION OF INFORMATION SERVICES & ORGANISATIONS

Techniques applicable to the evaluation of libraries and other information centres; including the statistics collected, their usefulness, and the means used to collect them as well as non-statistical methods and their value. Previous research will be studied to determine applicable methods and isolate trends, especially those which may have implications for the future.

Prerequisite: INN201

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN270 SOCIAL IMPACTS OF INFORMATION TECHNOLOGY

The significant issues in the realm of speculative information systems and technologies; scenarios of information rich/poor interactions within and without organisational environments are examined. Emerging issues in Information Technology and the implications for information systems and organisational structures are defined and predicted. A compact synthesis for an organisational system, incorporating environmental and societal integration is considered.

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN280 ORGANISATIONS, SYSTEMS & INFORMATION

The structure of organisations, systems and information; theoretical aspects of environmental and

managerial influences are explored and common linkages identified. Socio-technical areas and system failures are defined. Appropriate strategies to deal with system failures are formulated and presented. The role of information in organisations is illustrated and the symbiotic relationship established. This enables interface constraints to be identified and alternative solutions to be proposed.

Credit Points: 12 **Contact Hours:** 3 per week

■ ISN300 INFORMATION SYSTEMS II

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

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

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

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

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

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 or ISB182

Prerequisite/Co-requisite: ISP400 (for students in the Graduate Diploma Commercial Computing)

Credit Points: 12 **Contact Hours:** 3 per week

■ ISP303 PROGRAMMING

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 structured 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

■ ISP313 EXPERT INFORMATION SYSTEMS

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.

Prerequisites: ISB283, ISB290

Credit Points: 12 **Contact Hours:** 3 per week

■ ISP314 INFORMATION SYSTEMS MANAGEMENT

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, evaluation of computing contracts and professional ethics.

Prerequisite: Completion of one-half of the Graduate Diploma in Commercial Computing

Credit Points: 12 **Contact Hours:** 3 per week

■ ISP380 QUALITY INFORMATION SYSTEMS

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

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

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

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

A major project allocated to or proposed by the student in any of the specialist areas (covered or otherwise) in the course, eg, 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

■ ISP414 LIBRARY SERVICES TO YOUNG PEOPLE

Introduces the most important aspects of library services to children and young adults; covers the evolution of literature with emphasis on the effects of social, political and religious movements on its purposes, form and content; the development of library services in both schools and public libraries; the importance of literary awards; the criteria for selection of resources; the planning and carrying out of programs to promote reading, including effective storytelling.

Prerequisites: ISP431, ISP433

Credit Points: 12 **Contact Hours:** 3 per week

■ ISP419 GOVERNMENT DOCUMENTS

The production, acquisition and organisation of government documents, and issues related to their use. Topics include why governments publish, the range of subjects, the value of government information, bibliographic control, freedom of information, commercialisation/privatisation of government information, and organisation of government documents collections. Australian, United States, United Kingdom, and international government documents are studied.

Prerequisite: ISP433

Credit Points: 12 **Contact Hours:** 3 per week

■ ISP427 SPECIAL TOPIC – LIBRARY SCIENCE

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

This subject is designed to give students an opportunity to participate in the day-to-day work of a library at a beginning professional level. Students are required to undertake work at a level appropriate to beginning professionals in two approved libraries for a total period of 30 working days. During this period, they should have substantial experience in at least two different areas of library work under the supervision of professionally qualified librarians.

Prerequisite: Completion of 50 per cent of other subjects

Credit Points: 4

■ ISP431 COLLECTION BUILDING & ACQUISITIONS

The concept of information and its relationship to information resources and needs; the various formats by which information is communicated are compared and appropriate selection criteria discussed; the characteristics of the book and other media trades, and the means by which these media are acquired; collection building in light of the needs of the immediate clientele to be served and of the wider Australian community. Other topics include procedures for keeping collections current, evaluating their usefulness, and the legal and ethical dimensions of collection building.

Credit Points: 12 **Contact Hours:** 3 per week

■ ISP432 ORGANISATION OF KNOWLEDGE

The organisation of knowledge in libraries and information agencies. Emphasis is placed on the description, classification, and subject analysis of information in print media using AACR2 (1988 revision), DDC, and LCSH. Other related topics will be mentioned briefly, eg, LCC, MARC, ABN, and other cooperative efforts.

Credit Points: 12 **Contact Hours:** 3 per week

■ ISP433 INFORMATION SOURCES & SERVICES

Interpersonal communication, the reference interview and search strategies, and general and Australian reference tools; National Information Policy, reference theory and service, communication and the reference interview, search strategies, lead-in tools, general reference tools, government documents, resources in the humanities, social sciences, science and technology, user pays, document delivery and microcomputers and reference work.

Credit Points: 12 **Contact Hours:** 3 per week

■ ISP437 SPECIAL TOPIC

This subject allows 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: 8 **Contact Hours:** 2 per week

■ ISP441 ONLINE INFORMATION SERVICES

Teaches students to act as the interface between users and information they may require, using a variety of available resources, systems, and technologies; in-

cludes development of online information services, database producers, search strategies, services offered by major vendors, in-house systems (including CD-ROM), and trends and issues in computer assisted retrieval of information.

Credit Points: 12 **Contact Hours:** 3 per week

■ ISP442 LIBRARY PROGRAMS MANAGEMENT

Patterns of administrative organisation in libraries; authority relationships and the nature of the library as a bureaucracy; position classification and personnel administration; the management of library finances; applications of computer technology in library management; and change in organisations; the management functions of planning, organising, staffing, directing, and controlling; the concepts of leadership and professionalism.

Credit Points: 12 **Contact Hours:** 3 per week

■ ISP451 ADVANCED ORGANISATION OF KNOWLEDGE

The organisation of knowledge in libraries and information agencies. Topics include description of selected non-print media, enumerative and faceted classifications, special classifications, problems with alphabetical subject indexes, and automated indexing.

Prerequisite: ISP432

Credit Points: 12 **Contact Hours:** 3 per week

■ ISP452 INDIVIDUAL STUDY

Students can pursue in depth a personal interest in library science not covered by the Graduate Diploma course core or other elective subjects. On completion of this subject students should be able to demonstrate a detailed knowledge of the area chosen.

Prerequisite: To be determined by the nature of the study

Credit Points: 8 **Contact Hours:** 2 per week

■ ISP453 INTRODUCTION TO RECORDS MANAGEMENT

An introduction to records management theory, techniques and trends. Topics include the history and role of records management and the creation, control, organisation, maintenance, disposition, and evaluation of records.

Credit Points: 8 **Contact Hours:** 2 per week

■ ISP454 LIBRARY PROGRAMS & SERVICES

An introduction to the evaluation of users' informational needs and the development of library programs and services to meet the needs of special groups in the community, eg, young people, elderly people, disabled people, ethnic minorities, business people etc.

Credit Points: 8 **Contact Hours:** 2 per week

■ ISP998 SPECIAL TOPIC – COMMERCIAL COMPUTING

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

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

■ LPN111 COMPARATIVE PLANNING THEORY

The roles of planners (statutory, pluralist, advocate, consultant); different models of planning at different scales and in different contexts – national, regional and local; planning under different economic and social conditions – free market, centrally planned, indicative, directive, interventionist, participatory.

Credit Points: 3 **Contact Hours:** 3 per week

■ LPN112 CONCENTRATION STUDIES

In consultation with the lecturer in charge of the course, and with the approval of the Head of Department, each student will undertake an agreed program of study which may involve taking selected courses from outside the Urban and Regional Planning curriculum, focusing on a particular aspect of urban and regional planning which relates to the student's thesis topic. Every student is required to prepare a draft outline of the thesis and write a preliminary chapter or discussion paper which will normally deal with the theoretical background or broad context of the topic selected for study.

Credit Points: 6 **Contact Hours:** 2 per week

■ LPN113 OPTION PROJECTS

Working in small groups, students will undertake projects which broadly relate to their thesis topics. Projects may relate to topics such as Urban Development and Design, Regional Development Planning and Management, Recreation and Tourism Planning, and Planning in Developing Countries.

Credit Points: 12 **Contact Hours:** 3 per week

■ LPN114 APPLIED RESEARCH TECHNIQUES

Lectures on and instruction in a variety of research techniques, including surveys of various types, statistical analysis, remote sensing and others as appropriate.

Credit Points: 3 **Contact Hours:** 1 per week

■ LPN115 METROPOLITAN PLANNING PRACTICES & LAW

Growth and changes in metropolitan areas with particular reference to Australia; urban sprawl or urban consolidation; the future of metropolitan Brisbane; the current planning and legislative framework; suggestions for reform; group project on an aspect of metropolitan planning, normally in the context of Brisbane.

Credit Points: 22 **Contact Hours:** 3 per week

■ LPN121 PLANNING THESIS

The thesis will normally be required to be 30–50,000 words in length, or equivalent, and is normally related to the Concentration Studies and Option Project chosen by the student, and provides an opportunity to pursue in depth an issue or problem within his or her special field of interest. The precise subject and objectives are chosen in consultation with an appropriate tutor. Field work is usually a necessary component of the research required in the production of the Planning thesis which should make an original contribution to knowledge in the field of Urban and Regional Planning or a closely related area.

Credit Points: 32 **Contact Hours:** 2 per week

■ LPN122 PROFESSIONAL SEMINARS

Contributions by local and visiting speakers with specialist expertise or knowledge of specific issues or projects related to the work and interests of the Built Environment professions. Students from the different majors of MAppSc (Built Environment) program are expected to attend, and to participate fully in the discussions.

Credit Points: 4 **Contact Hours:** 2 per week

■ LPN123 PLANNING IN DEVELOPING COUNTRIES

The concept of the Third World – characteristics and setting; theories of national development relevant to the Third World; the roles of international agencies, governments, expatriate urban and regional planners, local expertise and the international community; the problems of rapid social and cultural change; the role of nationalism. Urban issues: rapid urbanisation, dual economies, the provision of shelter, squatters, social and physical infrastructure. Rural issues: definitions and theories of development, rural development schemes and case studies – capital intensive, economic transformations, the future of urban-rural relations in developing countries.

Credit Points: 6 **Contact Hours:** 2 per week

■ LPN124 OPTION COURSE

These courses will be selected by students with the approval of the Head of Department from among offerings in the three Brisbane universities for their interest and relevance to the student and her or his chosen Planning thesis topic.

Credit Points: 6 **Contact Hours:** 2 per week

■ LPP201 CULTURAL VALUES

Concepts of garden, landscape and environment. Formative influences on late twentieth 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: 4 **Contact Hours:** 1 per week

■ LPP202 RESIDENTIAL LANDSCAPE DESIGN

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: 8 **Contact Hours:** 3 per week

■ LPP203 URBAN LANDSCAPE DESIGN

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: 10 **Contact Hours:** 3 per week

■ LPP204 LANDSCAPE PLANNING

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 program which will promote an understanding of the theoretical framework of landscape planning.

Credit Points: 10 **Contact Hours:** 4 per week

■ LPP205 LANDSCAPE DESIGN

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: 10 **Contact Hours:** 3 per week

■ LPP206 FORUM/WORKSHOP A

■ LPP207 FORUM/WORKSHOP B

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

Practical experience for a period of at least three weeks in landscape architectural office or offices as approved by the Course Coordinator. 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 ADVANCED LANDSCAPE ECOLOGY

Structure of landscape and impact of human settlement; heterogeneous landscapes, patches, corridors, and the matrix; contrast and grain size; interaction

between adjacent elements, wind, soil, and water; connectivity of habitats and the dispersal of plants and animals; landscape and vegetation dynamics, scales of change; wildlife and conservation evaluation; GIS and other computer graphics and modelling in landscape ecology; multiple use and integrated landscape management; case studies in landscape ecology practice; potential for biological habitat reconstruction – issues, ethics, and practice.

Credit Points: 2 **Contact Hours:** 1 per week

■ LPP210 LANDSCAPE MANAGEMENT A

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: 10 **Contact Hours:** 4 per week

■ LPP211 LANDSCAPE MANAGEMENT B

The relationship between management and construction. Management created/dependent 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

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

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

Common philosophies of civil engineering designs; site influences on structural form; residential subdivisions – 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, marinas, coas-

tal 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

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

■ LPP216 COMPUTER AIDED DATA ANALYSIS A

The development of skills and application of computer aided data analysis in Landscape Architecture. The emphasis is on building graphical data and attribute data skills; database management software; input and manipulate data; development of graphic skills using the Autocad system.

Credit Points: 2 **Contact Hours:** 1 per week

■ LPP217 COMPUTER AIDED DATA ANALYSIS B

The subject presumes not only basic understanding of the use and application of computers but also a sound knowledge of and some skill in graphic software and data input analysis in database management systems. Exploration of the types of GIS, potentials and problems, and current issues; in working knowledge of ArcInfo (PC version) and the current applications in Landscape Architecture.

Credit Points: 2 **Contact Hours:** 1 per week

■ LPP401 RURAL LAND USE & PLANNING

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 use, abuse and conservation in Australia and overseas. Associated project and field work.

Credit Points: 3 **Contact Hours:** 1 per week

■ LPP402 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: 4 **Contact Hours:** 1 per week

■ LPP403 INTRODUCTION TO PLANNING PROCESSES

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

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

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

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

Models of public decision making: rational, incremental, bureaucratic, etc. The roles of political, administrative and private actors in public policy-making. 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 etc.

Credit Points: 4 **Contact Hours:** 2 per week

■ LPP408 SOCIAL & POLITICAL STRUCTURES

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: 4 **Contact Hours:** 1 per week

■ LPP411 PLANNING PRACTICE & LAW (URBAN)

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)

The regional concept and its relevance to planning; aims of regional and strategic planning, eg, 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: 12 **Contact Hours:** 4 per week

■ LPP413 ADVANCED URBAN STRUCTURE

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: 4 **Contact Hours:** 1 per week

■ LPP414 RESOURCE MANAGEMENT

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

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

Overview of the roles of the three levels of government in Australia as they impact on urban policy making and implementation. Statutory Authorities. 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

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, spread sheets and data bases; Geographical Information Systems, and CAD, including 'hands on' experience with drafting, digitising etc, and the specific use of Land Information Systems; and planning techniques including the use of programs developed in the Department and

linked to material being taught in other current subjects in the GDURP.

Credit Points: 6 **Contact Hours:** 2 per week

■ LPP420 DEPARTMENTAL FIELD TRIP

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

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

■ LPP502 SITE PLANNING TECHNIQUES

Introduction to the processes of site planning and detailed site design that lead to defensible 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

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

Design characteristics and criteria. The use of plants as structural and design elements within landscape. Principles of planting design. Scale. Design for change, growth, replacement, and maintenance. Planting design in typical schemes such as streets, highways, parks, urban forecourts and interior landscapes, gardens, and broadscale regeneration and stabilisation.

Credit Points: 3 **Contact Hours:** 1 per week

■ LPP505 CONSERVATION THEORY

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 week

■ LPP506 USER & CHARACTER DESIGN STUDIES

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: 8 **Contact Hours:** 3 per week

■ LPP507 SITE PLANNING

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: 11 **Contact Hours:** 3 per week

■ LPP508 INTRODUCTION TO PRACTICE

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 Hours:** 2 per week

■ LPP509 QUANTITIES & COSTS

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

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. Planning and land use regulations. Introduction to professional liability, design registration, and copyrights.

Credit Points: 2 **Contact Hours:** 1 per week

■ LPP511 ENVIRONMENTAL PSYCHOLOGY

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 INTRODUCTION TO PLANT SCIENCE

Consideration of plants as living organisms; survey of the plant kingdom emphasising evolutionary trends –

complexity of organisation and integration of structural elements, evolution of specialised organs such as leaves, roots, flowers, and propagules; consideration of plant systematics and taxonomy as scientific approaches to coping with diversity, the concept of classification, and the development and use of keys for identification. Values and use of numerical classification techniques are introduced; an introduction to physiological processes – photosynthesis and respiration, responses to light, temperature, nutrients, water balance and stress, nutrient and mineral deficiencies, and diseases and pathogens.

Credit Points: 4 **Contact Hours:** 2 per week

■ LPP513 INTRODUCTION TO PLANT ECOLOGY

The individual organism as an ecological unit; life forms as an expression of environmental influences; the concept of 'species' in plants and animals; population and population regulation; limiting factors; life cycles; pollination and dispersal; life history patterns; concept of 'niche'; resources, competition, dynamics of plant communities; herbivory and other interactions with the fauna; introduction to ecosystems and energy and nutrient flows.

Credit Points: 4 **Contact Hours:** 2 per week

■ LPP514 LANDSCAPE ECOLOGY

Broad divisions of the earth related to climate and soils – biomes, formations, alliances, associations, and societies; ecosystem concept and its development and application historically and in Australia; plant communities as expressions of ecosystems; energy and water balance; concepts of community ecophysiology and growth equations; vegetation classification in Australia and its functional significance; ecological biogeography of Australian vegetation; classification of landscape – concepts of biogeographic regions, provinces, land systems, and land units; landscape structure and function and significance for nature conservation and conservation planning; landscape ecology and landscape planning practice.

Credit Points: 9 **Contact Hours:** 3 per week

■ LPP515 IMPACTS & ASSESSMENT

Decision-making and conflict resolution techniques relevant to land and other natural resource planning and management; analysis of ecological processes which structure and maintain the major terrestrial and aquatic ecosystems as background to assessing impact of human activities of urbanisation, resource exploitation, mining, and other landscape changes; forms of impact assessment and analysis considering ecological, social, and economic issues; statutory assessment systems especially those pertaining to Queensland and under Federal legislation.

Credit Points: 4 **Contact Hours:** 2 per week

■ LPP516 VISUAL COMMUNICATION – GRAPHICS

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

Formal oral communication techniques including meetings, conferences, interviews and speeches (informative and persuasive).

Credit Points: 2 **Contact Hours:** 1 per week

■ LPP518 REPORT PREPARATION

Formal writing techniques, including reports, instructions, proposals, specifications, correspondence and essays. Report writing. Structure and content of reports. Summaries and subdivision of material. Precise 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

■ LPP520 LANDSCAPE GRAPHICS

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

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: 4 **Contact Hours:** 1 per week

■ LPP522 MEASUREMENT OF SITES

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

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

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

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: 7 **Contact Hours:** 2 per week

■ LPP552 INTRODUCTION TO GRAPHICS

Freehand 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: 5 **Contact Hours:** 2 per week

■ LPP553 SITE PLANNING DATA & TECHNIQUES

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: 3 **Contact Hours:** 1 per week

■ LPP554 SITE PLANNING PRACTICE

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 eg, cut and fill; subdivision design; planning application and approval process.

Credit Points: 12 **Contact Hours:** 3 per week

■ LPP555 THEORY OF SITE PLANNING

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: 3 **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. Precise.

Credit Points: 5 **Contact Hours:** 2 per week

■ LPP557 TRANSPORT PLANNING

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: 5 **Contact Hours:** 2 per week

■ LPP558 POPULATION & URBAN STUDIES

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: 10 **Contact Hours:** 3 per week

■ LPP559 APPLIED NATURAL SCIENCE

Applied studies in geology and geomorphology, 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: 5 Contact Hours: 2 per week

■ LPP560 HISTORY OF PLANNING

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: 3 Contact Hours: 1 per week

■ LPP561 INTRODUCTION TO URBAN DESIGN

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: 18 Contact Hours: 3 per week

■ LPP562 ECONOMICS OF TOWN PLANNING

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: 5 Contact Hours: 2 per week

■ LPP563 INTRODUCTION TO COMPUTERS IN PLANNING

Introduction to the use of computers in planning, including their potential benefits and problems; the computing facilities available at QUT, particularly PCs. The course provides an overview of computers including: 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; gaining access, file structures, information storage and retrieval, editing, and related utility functions; introduction to flow-charting and programming logic. Simple programming exercises. Spreadsheets and databases. Introduction to Geographical Information Systems. Word processing on microcomputers. Class sessions will include 'hands on' tutorial experience.

Credit Points: 4 Contact Hours: 2 per week

■ LPP564 INTRODUCTION TO MAPS & AIR PHOTOS

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: 3 Contact Hours: 1 per week

■ LPP565 URBAN LAND DEVELOPMENT

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 authorities. Development teams – the roles of associated disciplines – civil, municipal and transport engineers, earth and environmental scientist, and others. The role of the private developer.

Credit Points: 3 Contact Hours: 1 per week

■ LPP566 HOUSING & COMMUNITY SERVICES

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: 5 Contact Hours: 2 per week

■ LPS102 INTRODUCTION TO TOWN PLANNING

The concept and administrative procedures of town planning; the objectives of town planning; conflicts in land use; development control; planning criteria; planning schemes; development applications and decision making.

Credit Points: 2 Contact Hours: 2 per week

■ LWB101 INTRODUCTION TO LAW

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

The substantive principles of contract law, as taught, include: definition of the Law of Contract, outline of remedies; formation of contract – agreement equitable estoppel; contents of a contract express and implied terms; factors vitiating contracts; capacity to contract; privity of contract; discharge of contract; breach of contract.

Credit Points: 12 per semester

Contact Hours: 3 per week

■ LWB103 TORTS

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

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

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

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

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

Equitable doctrines were developed to complement the sometimes inflexible rules of the common law. In Semester 1, students are introduced to basic equitable principles, including a study of equitable estates and interests. Unconscionable dealings are also studied in some detail. In Semester 2, 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

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 separa-

tion and divorce, such as maintenance, adjustment of interests in property and custody.

Credit Points: 12 **Contact Hours:** 3 per week

■ LWB303 COMMERCIAL LAW

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; insurance.

Credit Points: 12 per semester

Contact Hours: 3 per week

■ LWB305 JURISPRUDENCE

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

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

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

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

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

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 also considered.

Credit Points: 12 per semester
Contact Hours: 3 per week

■ LWB312 LAND CONTRACTS

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

■ LWB313 DISCRIMINATION/EQUAL OPPORTUNITY LAW

An examination of the law and policy with respect to discrimination and equal opportunity in Australia; relevant international treaties and Australian legislation such as the Racial Discrimination Act, Sex Discrimination Act, Human Rights and Equal Opportunity Commission Act and Privacy Act are considered; the practice and procedure of the Human Rights Commission and state bodies.

Credit Points: 12 **Contact Hours:** 3 per week

■ LWB401 COMPANY LAW & PARTNERSHIP

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

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

The course examines the Income Tax Assessment Act 1936 (Cth) and some related statutes. 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; tax planning; liability of tax advisors, and some aspects of fringe benefit tax.

Credit Points: 12 per semester
Contact Hours: 3 per week

■ LWB404 CIVIL PROCEDURE

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: 12 per semester
Contact Hours: 3 per week

■ LWB405 SOLICITORS' TRUST ACCOUNTS

Credit Points: 8 **Contact Hours:** 2 per week

■ LWB406 PUBLIC INTERNATIONAL LAW

An examination of the legal rules which govern the activities of nations between themselves and with international organisations, such as the UN; the creation of international law (treaties, customary law, general principles of law); the concept of international legal personality (statehood, self-determination, recognition); the effects of international law (sovereignty, international responsibility, human rights, the law of armed conflict); the problem of the status of the law itself; comparative approaches to international legal thinking.

Credit Points: 12 **Contact Hours:** 3 per week

■ LWB407 CONFLICT OF LAWS

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

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

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 arrange-

ments 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

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

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

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

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

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

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

■ LWB483 MEDICO-LEGAL ISSUES

The constitutional framework supporting the regulation of health care; the relationship between the individual and the health care provider in terms of consent to treatment and negligence; the impact of the criminal law – abortion, removal from life support systems; mental illness and fitness to plead; medical records and evidence – ownership and confidentiality of records, expert evidence; the role of the coroner; complaints against hospitals and health care workers.

Prerequisites: LWB101, LWB103

Credit Points: 8 **Contact Hours:** 2 per week

■ LWD001 LAW FOR NURSES

Introduction to the Australian legal system; Commonwealth and State powers concerning health; consent and treatment/restraint of patients; negligence; the relationship between employer and employee; removal of patients from life support equipment and the law on euthanasia; abortion; transplantation of organs and tissue; medical records and confidentiality; control of poisons; the Coroners Act (Qld).

Credit Points: 3 **Contact Hours:** 2 per week

■ LWN001 ADVANCED COMPANY LAW

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

■ LWN004 ADVANCED LAW OF TRUSTS

The underlying principles of areas of conceptual difficulty from the law of trusts which are of particular practical importance. A specialised examination of the principles and practice in respect of establishment, administration, distribution, taxation, liability and recognition.

Credit Points: 24 **Contact Hours:** 2 per week

■ LWN005 TRADE PRACTICES & CONSUMER PROTECTION

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 authorities under the Act.

Credit Points: 10 per semester

Contact Hours: 2 per week

■ LWN007 COMMERCIAL ARBITRATION

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

A detailed examination of the principles underlying modern commercial leases in the light of recent case law and Queensland statutory provisions affecting those interests, particularly the Retail Shop Leases Act, 1984. Included are sessions from specialist practitioners on drafting techniques and registration practice.

Credit Points: 10 per semester

Contact Hours: 2 per week

■ LWN011 LITIGATION

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

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 **Contact Hours:** 2 per week

■ LWN017 RESTITUTION

A restitutionary claim is allowed when a defendant obtains a benefit which must be restored to the plaintiff. The basis on which restitution is made is that the defendant has been enriched at the plaintiff's expense and that it would be unjust to allow the defendant to retain the benefit. Liability lies outside the traditional areas of civil obligation, contract and tort. The course will examine the principles of restitution, that is those circumstances in which a remedy is allowed on the basis of unjust enrichment.

Credit Points: 12 **Contact Hours:** 2 per week

■ LWN019 TAXATION OF BUSINESS ENTITIES

The consequences of a sole trader setting up business in partnership with others, carrying on business activities by way of a business trust and a corporation. Approximately three-quarters of the course will be devoted to the carrying on of business activities through a corporation.

Credit Points: 12 **Contact Hours:** 2 per week

■ LWN020 NON-RESIDENT & FOREIGN SOURCE TAXATION

Questions relating to residence, source, transfer pricing and the legislation relating to Controlled Foreign Entities; the effect of Double Tax Treaties.

Credit Points: 12 **Contact Hours:** 2 per week

■ LWN021 BANKING & FINANCE LAW I

Lending on the security of goods and priorities in relation to chattel securities; lending on the security of proceeds, assignment of choses in action and chattel paper, credit cards; financing through negotiable instruments, promissory notes and letters of credit; unitisation and property financing; project financing.

Credit Points: 12 **Contact Hours:** 2 per week

■ LWN022 BANKING & FINANCE LAW II

Securitisation of debts; SWAP transactions; international financing (including capital adequacy requirements); corporate reconstructions; tax based finance transactions.

Credit Points: 12 **Contact Hours:** 2 per week

■ LWN023 INTERNATIONAL TRADE LAW

Origins, sources and modern developments; harmonisation of law; international commercial transactions; international sale of goods; countertrade; marketing arrangements; financing international transactions; carriage of goods by sea; carriage of goods by air; litigation; international commercial arbitration; other alternative dispute resolution; export assistance; investment protection; ANZCERTA; globalisation of legal services; principles of international business conduct; examination of the trade law of a selected trading partner of Australia.

Credit Points: 24 **Contact Hours:** 2 per week

■ LWN024 SELECT PROBLEMS OF TRIBUNALS & ENQUIRIES

Legal questions associated with principles and procedures of various public tribunals, at both Federal and State levels, including bodies such as Royal Commissions of Inquiries by parliamentary Committees.

Credit Points: 12 **Contact Hours:** 2 per week

■ LWN025 RESEARCH PROJECT I

A supervised research project over one semester approved by the Post-Graduate Studies Committee.

Credit Points: 12

Contact Hours: Variable supervision equivalent to two per week.

■ LWN026 RESEARCH PROJECT II

A supervised research project over the whole year approved by the Post-Graduate Studies Committee.

Credit Points: 24

Contact Hours: Variable supervision equivalent to two per week.

■ LWN032 CREDIT FOR UQ SUBJECT I

Under the course rules, a coursework student may, with the prior approval in writing of the Deans of the Faculties of Law of the Queensland University of Technology and of the University of Queensland, undertake one whole year or two one-semester subjects offered in the LL.M. degree by Coursework at the University of Queensland. This subject code represents a one-semester subject taken pursuant to that course rule at the University of Queensland.

■ LWN033 CREDIT FOR UQ SUBJECT II

Under the course rules, a coursework student may, with the prior approval in writing of the Deans of the Faculties of Law of the Queensland University of Technology and of the University of Queensland, undertake one whole year or two one-semester subjects offered in the LL.M. degree by Coursework at the University of Queensland. This subject code represents a one-semester subject taken pursuant to that course rule at the University of Queensland.

■ LWN034 CREDIT FOR UQ SUBJECT III

Under the course rules, a coursework student may, with the prior approval in writing of the Deans of the Faculties of Law of the Queensland University of Technology and of the University of Queensland, undertake one whole year or two one-semester subjects offered in the LL.M. degree by Coursework at the University of Queensland. This subject code represents a whole year subject taken pursuant to that course rule at the University of Queensland.

■ 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 Hours:** 3 per week

■ LWS003 LAW & ENVIRONMENTAL HEALTH

How laws are made; statutory interpretation; contract; negligence; negligent advice given by professionals; local government law; evidence; conduct of a criminal trial; and civil court procedure.

Credit Points: 4 **Contact Hours:** 3 per week

■ MAA251 STATISTICS & DATA PROCESSING

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:** 3 per week

■ MAB001 MATHEMATICS FOR SCIENCE & TECHNOLOGY

Data handling; algebra; analytical geometry; trigonometry and calculus; vectors; complex numbers.

Credit Points: 12

Contact Hours: 21 per week over four weeks

■ MAB150 QUANTITATIVE TECHNIQUES

The interpretation of data and the application of numerical techniques.

Credit Points: 6 **Contact Hours:** 2 per week

■ MAB151 QUANTITATIVE TECHNIQUES

A basic mathematics unit with emphasis on the interpretation of data and the application of numerical techniques.

Credit Points: 6 **Contact Hours:** 2 per week

■ MAB156 STATISTICS

Organisation and analysis of data; introduction to statistical packages; probability and probability distributions; sampling theory; estimation: testing of hypothesis; regression and correlation; non-parameter statistics; analysis of variance.

Credit Points: 6 **Contact Hours:** 2 per week

■ MAB172 QUANTITATIVE METHODS IB

Organisation and analysis of data; probability and probability distributions; sampling theory: estimation: testing of hypothesis; regression and correlation.

Credit Points: 9 **Contact Hours:** 3 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

■ MAB174 COMPUTER DATA ANALYSIS

Introduction to the use of a microcomputer in business, the use of the microcomputer for spreadsheet, word processing and descriptive statistical analysis; use of the 'VP-Planner' and 'Word Perfect' packages. Conducting surveys; analysis of survey sample data using the 'statgraphics' package; the theoretical measures of statistics involving central tendency dispersion, probability and probability distributions.

Credit Points: 12 **Contact Hours:** 3 per week

■ MAB193 ENGINEERING MATHEMATICS I

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 per semester

Contact Hours: 3 per week

■ MAB195 QUANTITATIVE METHODS I

Applications of plane and solid geometry in design, revision of basic geometry; construction and packing of solids; spherical geometry and its applications. Application of trigonometry in design; calculation of heights, distances, areas and volumes.

Credit Points: 6 **Contact Hours:** 3 per week

■ MAB196 QUANTITATIVE METHODS II

Data collection and analysis in design; introduction to statistics; use of computers in data analysis.

Credit Points: 6 **Contact Hours:** 3 per week

■ MAB199 SURVEY MATHEMATICS I

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

Elementary functions; differentiation; integration; matrices.

Credit Points: 8 **Contact Hours:** 3 per week

■ MAB216 DISCRETE MATHEMATICS

Axiomatic 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

Integration; elementary ordinary differential equations; partial differentiation; analytic geometry.

Prerequisite: MAB211

Credit Points: 8 **Contact Hours:** 3 per week

■ MAB225 MATHEMATICS IC

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

Limits and continuity; vector geometry; curve sketching.

Prerequisite: MAB211

Co-requisites: MAB224, MAB225

Credit Points: 8 **Contact Hours:** 3 per week

■ MAB227 STATISTICS

Data handling; probability; sampling; estimation; tests of hypothesis; regression and correlation; experimental design.

Co-requisite: MAB211

Credit Points: 8 **Contact Hours:** 3 per week

■ MAB251 MATHEMATICS I

Data handling; determinants and matrices; differentiation with applications; partial differentiation; integral calculus with applications; numerical methods.

Credit Points: 8 **Contact Hours:** 4 per week

■ MAB252 STATISTICS

Organisation and analysis of data; probability and probability distributions; sampling theory; estimation; tests of hypothesis; regression and correlation.

Prerequisite: MAB150 or MAB251

Credit Points: 4 **Contact Hours:** 2 per week

■ MAB258 EXPERIMENTAL DESIGN

Goodness of fit tests and tests of independence using Chi-square distribution; introduction to multiple regression; statistical quality control; analysis of variance; introduction to non-parameter methods.

Prerequisite: MAB252

Credit Points: 4 **Contact Hours:** 4 per week

■ MAB259 BIOMEDICAL STATISTICS

Goodness of fit tests and tests of independence using Chi-square distribution; introduction to multiple regression; statistical quality control; analysis of variance; introduction to non-parameter methods.

Prerequisite: MAB252

Credit Points: 6

Contact Hours: 2 hours per week

■ MAB297 MATHEMATICS FOR CONSTRUCTION

Data handling and basic algebra, geometry, trigonometry, vector techniques; introduction to financial mathematics; introduction to probability and statistics.

Credit Points: 4 **Contact Hours:** 2 per week

■ MAB298 MATHEMATICS & STATISTICS

Data handling, basic algebra, geometry, trigonometry, vector techniques; introduction to financial mathematics; introduction to probability and statistics.

Credit Points: 4 **Contact Hours:** 2 per week

■ MAB301 CALCULUS & ANALYSIS A

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

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

Set theory; relations and functions; binary operations; number theory; group theory; rings and fields.

Credit Points: 10 **Contact Hours:** 3 per week

■ MAB310 LINEAR ALGEBRA

Matrices; vector spaces; linear transformations; eigenvalues and eigenvectors. Euclidean spaces; quadratic forms.

Credit Points: 10 **Contact Hours:** 3 per week

■ MAB317 MATHEMATICAL STATISTICS I

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

Introduction to quality control, introduction to non-parametric 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

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

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

■ MAB409 MODERN ALGEBRA

Set theory, relations and functions, binary operations, number theory, group theory; rings 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 A

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

Laplace transforms; ordinary differential equations; multivariable calculus; applications particularly relevant to physics.

Prerequisite: MAB225

Credit Points: 10 **Contact Hours:** 3 per week

■ MAB412 MATHEMATICS IIB

Fourier series; partial differential equations; vector analysis; applications particularly relevant to physics.

Co-requisite: MAB411

Credit Points: 10 **Contact Hours:** 3 per week

■ MAB417 MATHEMATICAL STATISTICS A

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.

Prerequisite: MAB224

Credit Points: 10 **Contact Hours:** 3 per week

■ MAB418 MATHEMATICAL STATISTICS B

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

■ MAB425 MATHEMATICS 2C

Partial differentiation, complex analysis, differential equations; special functions; applications particularly relevant to physics.

Prerequisite: MAB411

Credit Points: 10 **Contact Hours:** 3 per week

■ MAB442 FINANCIAL MATHEMATICS

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

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, polynomial 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 per semester

Contact Hours: 3 per week

■ MAB495 SURVEY MATHEMATICS II

Calculus. Matrix algebra. Spherical trigonometry. Three-dimensional coordinate geometry.

Prerequisite: MAB199

Credit Points: 12 **Contact Hours:** 6 per week

■ MAB499 BASIC STATISTICS FOR SURVEYORS

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

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

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

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

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

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 and MAB310

Credit Points: 10 **Contact Hours:** 3 per week

■ MAB618 NUMERICAL ANALYSIS I

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] and CSB155

Credit Points: 10 **Contact Hours:** 3 per week

■ MAB619 NUMERICAL ANALYSIS II

Systems of linear equations (iterative methods); solution of non linear equations; interpolation and approximation; numerical quadrature; eigenvalue problem; ordinary differential equations.

Prerequisites: MAB618, MAB301 and MAB310

Credit Points: 10 **Contact Hours:** 3 per week

■ MAB635 CLASSICAL THEORETICAL MECHANICS

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

The simplex algorithm; simulation, replacement, maintenance and reliability; networks.

Prerequisites: MAB301, MAB317, MAB310 and CSB155

Credit Points: 10 **Contact Hours:** 3 per week

MAB638 OPERATIONS RESEARCH IB

The revised simplex method; transportation and transshipment; assignment; parametric analysis; inventory; introduction to queuing.

Prerequisite: MAB637

Credit Points: 10 **Contact Hours:** 3 per week

MAB641 ACTUARIAL MATHEMATICS

The life table; demographic techniques; pure endowments and annuities; assurances; policy values; laws of mortality; benefits depending on other contingencies; pension funds.

Co-requisite: MAB342

Credit Points: 10 **Contact Hours:** 3 per week

MAB710 LINEAR ALGEBRA B

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 matrices.

Prerequisite: MAB410

Credit Points: 10 **Contact Hours:** 3 per week

MAB718 NUMERICAL ANALYSIS A

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

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

MAB735 MECHANICS

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 and MAB226 or MAB412

Credit Points: 10 **Contact Hours:** 3 per week

MAB737 OPERATIONS RESEARCH A

The simplex algorithm; simulation; replacement, maintenance and reliability; networks.

Prerequisites: MAB417, MAB410 and CSB155

Co-requisite: MAB442

Credit Points: 10 **Contact Hours:** 3 per week

MAB738 OPERATIONS RESEARCH B

The revised simplex method; transportation and transshipment, assignment, parametric analysis; inventory; introduction to queuing.

Prerequisite: MAB737

Credit Points: 10 **Contact Hours:** 3 per week

MAB741 ACTUARIAL MATHEMATICS

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

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

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

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 elimination, compact methods, Cholesky, iterative methods.

Prerequisite: MAB495

Credit Points: 6 **Contact Hours:** 3 per week

MAB893 ENGINEERING MATHEMATICS III

Eigenvalues and eigenvectors, quadratic forms, determination 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

Solution of linear systems of differential equations employing operator-D and Laplace transform methods, variation of parameters methods for non-homogenous 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

Topics selected from the following: measures; Lebesgue 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

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

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

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: MAB610 or EEB661

Credit Points: 12 **Contact Hours:** 3 per week

■ MAB921 METHODS OF MATHEMATICAL PHYSICS A

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

The general linear model; errors in variables; autocorrelation; single equation problems; simultaneous equations problems; estimation methods.

Prerequisite: MAB608

Credit Points: 12 **Contact Hours:** 3 per week

■ MAB927 OPERATIONS RESEARCH IIA

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

Simulation; queueing; decision analysis; implementation in operations research.

Prerequisite: MAB637

Credit Points: 12 **Contact Hours:** 3 per week

■ MAB929 STATISTICAL FORECASTING

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

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.

Prerequisites: MAB601, MAB612

Credit Points: 12 **Contact Hours:** 3 per week

■ MAB960 PROJECT WORK

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

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

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

Basic concepts and preliminary considerations. Control chart procedures for variables, \bar{X} 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

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-1 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

Collection of data and use of check sheets. Histogram 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

■ MAP256 STATISTICS

Probability distributions; sampling techniques; statistical inference and hypothesis testing; basic experimental designs; regression analysis; correlation; non-parametric techniques.

Credit Points: 4 **Contact Hours:** 2 per week

■ MAS090 MATHEMATICS

This intensive subject is aimed at providing an appropriate background for those who may wish to undertake a tertiary course in science, business or other areas which require competence in certain mathematical areas prior to entry. Topics introduced include algebra, analytical geometry, trigonometry, differential and in-

tegral calculus, matrices and a selection of applications from elementary statics, kinematics, dynamics and statistics. The treatment assumes some initial knowledge of basic algebra, such as manipulation of indices and factorisation, and elementary trigonometry at a level equivalent to Year 10 Advanced Mathematics.

Credit Points: 6 per semester

Contact Hours: 3 per week

■ MAS091 MATHEMATICS

This intensive subject is aimed at providing an appropriate background for those who may wish to undertake a tertiary course in science, business or other areas which require competence in certain mathematical areas prior to entry. Topics introduced include algebra, analytical geometry, trigonometry, differential and integral calculus, matrices and a selection of applications from elementary statics, kinematics, dynamics and statistics. The treatment assumes some initial knowledge of basic algebra, such as manipulation of indices and factorisation, and elementary trigonometry at a level equivalent to Year 10 Advanced Mathematics.

Credit Points: 12

Contact Hours: 6 per week, Semester 2; 21 per week, Summer School

■ MAS092 MATHEMATICS A

This subject is aimed at providing a mathematical background pertinent to those who may wish to undertake a tertiary course in computing. Topics introduced include algebra, matrices, analytical geometry, trigonometry, propositions and truth tables, set theory. The treatment assumes some initial knowledge of basic algebra, such as manipulation of indices and factorisation, and elementary trigonometry at a level equivalent to Year 10 Advanced Mathematics.

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB010 DYNAMICS I

Simplified analysis and modelling methods; motion found in architecturally relevant machines and mechanisms; forces due to inertia, impacts, and collisions; damage and vibration arising from forces; fluids, transmission in pipes and channels, mechanisms of erosion, forces exerted on structures; methods of measurement and testing; physical modelling with readily available materials and easily constructed models.

Credit Points: 4 **Contact Hours:** 2 per week

■ MEB012 DYNAMICS II

Continuation of MEB010; further treatment of machines and mechanisms; unbalanced forces in rotating bodies; gyroscopic effects; vibrations due to unbalance; vibration control; earthquakes and their effects; interaction of fluids and structures under gusty conditions, ocean waves, and natural phenomena; further work on measurements; model studies of more realistic cases.

Prerequisite: MEB010

Credit Points: 4 **Contact Hours:** 2 per week

■ MEB031 MATERIALS TECHNOLOGY

A structure property approach to orthotic materials; plastics; rubber; metals; composites; modes of failure; strength; creep; fatigue; resilience; selection procedures.

Credit Points: 8 **Contact Hours:** 2 per week

■ MEB035 SAFETY TECHNOLOGY I

The importance and relevance of safety in the workplace; analysis of the accident process; the

hazards associated with machinery and materials failure.

Prerequisites: BGB151, PHB250

Co-requisite: PNB211

Credit Points: 10 **Contact Hours:** 4 per week

■ MEB101 DESIGN I

Mechanical design: power transfer; V-belt drives; chain drives; gear drives; selection of machine components.

Prerequisites: MEB121, CEB184

Co-requisites: MEB133, CEB185, MEB111

Credit Points: 8 **Contact Hours:** 3 per week

■ MEB111 DYNAMICS

Basic concepts of the principles of dynamics; kinetics of particles and systems of particles in plane motion; 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

Principles of geometric drawing; orthographic projection; auxiliary views; sectioning; component detailing; surface developments; assembly drawing; CAD.

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB133 MATERIALS I

Bonding; thermodynamics of solids; state and phase changes; defects; elasticity, plasticity and fracture; recovery diffusion; recrystallisation; hot and cold deformation; creep and fatigue mechanisms; heat treatment. Alloying and strengthening in metals, polymers and ceramics.

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB171 INTRODUCTION TO MANUFACTURING

The role of manufacturing industry in the Australian economy; modern concepts in manufacturing systems design; interrelationship between design, materials selection, manufacturing, processes, marketing and information processing of products will be presented; choice of manufacturing technologies in relation to product quantity and quality.

Credit Points: 3 **Contact Hours:** 1.5 per week

■ MEB173 MANUFACTURING PRACTICE

The role of manufacturing industry in the Australian economy; modern concepts in manufacturing systems design; the interrelationship between design, materials selection, manufacturing processes, marketing and information processing of products; the choice of manufacturing technologies in relation to product quality and quantity; hands-on experience in manufacturing processes; metrology laboratory and systems modelling.

Credit Points: 7 **Contact Hours:** 3 per week

■ MEB200 INDUSTRIAL EXPERIENCE I

Students should engage in at least five weeks' employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form which has been completed by both student and the employer.

Contact Hours: 5 weeks

■ MEB230 MATERIALS II

Solidification of ingots and castings; segregation; defects; properties of cast irons; steel and non-ferrous alloys. Properties of welded materials; arc characteristics; metal transfer; thermal diffusivity; cooling

rates and transformations; carbon equivalents; hot and cold cracking; residual stresses and dilution effects. Properties of wrought materials; strain hardening; anisotropy, preferred orientation; defects; toughness. Microstructures and properties of high strength low alloy steels. Important non-ferrous alloys.

Prerequisite: MEB133

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB231 MATERIALS III

The structure and properties of polymers; composites and modern engineering ceramics; stress transformations; fibre and matrix properties; fibre density and orientation; rule of mixtures; modern engineering polymers; properties and applications; fracture toughness of polymers, ceramics and metals; linear elastic fracture mechanics; applications to static and dynamic forces such as fatigue and stress corrosion cracking.

Prerequisite: MEB133

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB250 THERMODYNAMICS I

The basics of engineering thermodynamics; 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

Steam plant; impulse and reaction turbines; gas turbines and refrigeration; field visit.

Prerequisite: MEB250

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB270 INDUSTRIAL EXPERIENCE I

Students should engage in at least five weeks' employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form which has been completed by both the student and the employer.

Contact Hours: 5 weeks

■ MEB300 INDUSTRIAL EXPERIENCE II

Students should engage in at least five weeks' employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form which has been completed by both student and the employer.

Contact Hours: 5 weeks

■ MEB313 MECHANICS I

Kinematic and dynamic analysis of linkages and mechanisms; linkage synthesis applied to spatial mechanisms and robotics; the design and synthesis of cranks and the kinematic analysis of gears.

Prerequisites: CEB184, MEB111, CEB185

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB335 MATERIALS & MANUFACTURING PROJECT

The project exposes the student to self-regulated but supervised research on a specific topic associated with materials or manufacturing engineering. A survey of relevant literature and organised experimental work resulting in conclusions presented in a formal report.

Prerequisites: MEB230, MEB231

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB361 FLUIDS I

Fluid mechanics; 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.

Prerequisites: MEB111, PHB132, MAB193

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB370 MANUFACTURING SYSTEMS I

Practical machining principles; mechanics of chip formation; speeds and feeds selection; practical applications in metrology; Numerical Control and parts programming; processing of plastics.

Prerequisite: MEB171

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB381 DESIGN II

Methodology for mechanical design: design of machine elements; design for strength and fatigue; computer-aided design.

Prerequisites: MEB121, MEB101, CEB184, CEB185

Co-requisite: MEB313

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB402 INDUSTRIAL EXPERIENCE III

Students should engage in at least five weeks' employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form which has been completed by both student and the employer.

Contact Hours: 5 weeks

■ MEB408 PROJECT A (MECHANICAL)

Investigate in depth and present a formal report on a mechanical engineering problem; project may be industry based or arise from applied research.

Prerequisite: MEB339 **Co-requisite:** MEB489

Credit Points: 16 per semester

Contact Hours: 6 per week

■ MEB409 PROJECT B (MECHANICAL)

Investigate in depth and present a formal report on mechanical engineering problem; project may be industry based or arise from applied research.

Prerequisite: MEB339 **Co-requisite:** MEB489

Credit Points: 8 per semester

Contact Hours: 3 per week

■ MEB411 THEORY OF MACHINES

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

Psychrometry, 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

Fluid flow in closed conduits; rotodynamic machines; hydraulic transmissions; water hammer in pipes; dimensional analysis and dynamic similarity.

Prerequisite: MAB193

Co-requisites: MEB361, MAB493

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB463 TRIBOLOGY

The fundamentals of tribology; specification and measurement of surface roughness; lubrication

modes; lubricants; wear modes; bearing design; lubrication of machine elements; seals.

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB464 FLUIDS III

Boundary layer theory; a general approach to viscous flow via the Navier-Stokes and Reynold's equations; isentropic compressible flow; normal and oblique shock waves.

Prerequisites: MEB462, MAB893

Credit Points: 7 **Contact Hours:** 3 per week

■ MEB470 INDUSTRIAL EXPERIENCE II

Students should engage in at least five weeks' employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form which has been completed by both student and the employer.

Contact Hours: 5 weeks

■ MEB471 MANUFACTURING ENGINEERING I

Practical machining principles and mechanics of chip formation; economics of machining; practical applications in metrology; NC part programming.

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB472 MANUFACTURING SYSTEMS II

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

The design of mechanisms; welded structures; flexible components, journal bearings; computer-aided design.

Prerequisites: MEB133, MEB111, CEB102, CSB191, MEB381

Co-requisites: MEB411, MEB231, MEB313

Credit Points: 7 **Contact Hours:** 3 per week

■ MEB489 MECHANICAL DESIGN PROJECT

A team approach to design: projects drawn from either QUT or industry; application of theoretical and practical design principles; design, draw and supervise manufacture of project; presentation of formal report.

Prerequisites: MEB483, MEB610, MEB511, MEB773

Co-requisites: MEB772, MEB911

Credit Points: 7 per semester

Contact Hours: 3 per week

■ MEB500 SPECIAL TOPIC I

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 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

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

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

Properties and applications for modern advanced composites; fibre reinforcements of ceramic, metal and polymer materials; coatings of metals and ceramics by vapour deposition; plasma and advanced techniques; surface treatments for frictional and wear performance; properties of ultra high strength steels.

Prerequisites: MEB230, MEB231

Credit Points: 7 **Contact Hours:** 3 per week

■ MEB550 HEAT TRANSFER

Conduction (steady-state, 1 and 2 dimensions, unsteady-state); convection (boundary layers, forced, natural) and radiation (black and grey bodies, shape factors).

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB571 MANUFACTURING ENGINEERING II

Fundamentals and applications of plasticity theory in the deformation of metals and plastics; analysis of forming machine performance and selection of machine tools.

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB600 INDUSTRIAL EXPERIENCE III

Students should engage in at least five weeks' employment, approved by the Head of School. For the employment to be recognised, students must submit an industrial experience record form which has been completed by both student and the employer.

Contact Hours: 5 weeks

■ MEB601 SPECIAL TOPIC II

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.

Prerequisites: Students will need to have achieved an appropriate level of preparation in the topic area concerned.

Co-requisites: Will depend on the syllabus of the particular special topic offered.

Credit Points: 7 **Contact Hours:** 3 per week

■ MEB610 MECHANICS II

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

Mathematical models of mechanical systems: system response to given inputs; modification of system

parameters to obtain a more desirable response in closed loop.

Prerequisite: MAB493

Credit Points: 7 **Contact Hours:** 3 per week

■ MEB650 THERMODYNAMICS III

Properties and testing methods of solid, liquid and gaseous fuels; combustion calculations; flue gas analysis; energy tariffs and audits; major applications of energy management, eg, buildings, process plant, compressed air systems, vehicle fleets; 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

Introduction to fluid power; graphical symbols; simple circuits; cascade method; Boolean algebra; fluid logic; Karnaugh-Veitch method; hydraulic components; hydraulic system design; hydraulic circuits.

Prerequisite: MEB462

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB670 INDUSTRIAL ENGINEERING I

Project planning and control; plant location and layout; work study; design of experiments; linear programming applications.

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB673 MANUFACTURING ENGINEERING III

Advanced manufacturing technology; tool chatter and vibration; optical metrology; an introduction to CAM and robotics.

Prerequisite: MEB471

Credit Points: 7 **Contact Hours:** 3 per week

■ MEB680 ADVANCED MECHANICAL DESIGN

The application of modern materials and analytical techniques to mechanical design; case studies; statistical analysis of failures; application of materials science in design; fracture mechanics; computer-aided optimisation techniques.

Prerequisites: MEB483, MEB230, MEB231, MEB411

Credit Points: 7 **Contact Hours:** 3 per week

■ MEB701 SPECIAL TOPIC III

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: 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

■ MEB710 AUTOMATION II

Use of computer packages in control system design (eg, Matrix, 'X'); fundamentals of discrete time systems; instrumentation used in the acquisition and analysis of digital data (eg, Labtech); Programmable Logic Controllers.

Prerequisites: MEB640, MEB660

Credit Points: 7 **Contact Hours:** 3 per week

■ MEB771 INDUSTRIAL ENGINEERING II

Forecasting; manufacturing resources planning; scheduling; capacity planning; total quality control; modelling and simulation.

Prerequisite: MEB670

Credit Points: 6 **Contact Hours:** 3 per week

■ MEB772 ENGINEERING PROJECT APPRAISAL

Rational economic analysis of engineering projects at product level and project level; techniques needed to establish the cost of a project; techniques for determining design changes needed to reduce the manufacturing cost of a product; 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

Value analysis and principles related to product design; tolerance technology; 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

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.

Prerequisites: Students will need to have achieved an appropriate level of preparation in the topic area concerned.

Co-requisites: Will depend on the syllabus of the particular special topic offered.

Credit Points: 7 **Contact Hours:** 3 per week

■ MEB810 INDUSTRIAL NOISE & VIBRATION

Vibration measurements; spectrum analysis; Kurtosis, Cepstrum and envelope analysis; averaging; gear, bearing and rotor vibration; whole body and arm vibration; noise power; industrial standards; attenuation methods.

Prerequisite: MEB510

Credit Points: 7 **Contact Hours:** 3 per week

■ MEB900 MANUFACTURING PROJECT

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 per semester

Contact Hours: 3 per week

■ MEB911 FINITE ELEMENT ANALYSIS

General description of the finite element method; static and dynamic analysis of mechanical engineering problems; review of finite element packages.

Prerequisites: MEB462, MEB550, MEB610, MEB511

Credit Points: 7 **Contact Hours:** 3 per week

■ MEB950 PROCESS PLANT DESIGN

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

Analysis of selected fluid systems; performance characteristics of individual components; performance characteristics of systems.

Co-requisite: MEB464

Credit Points: 7 Contact Hours: 3 per week

■ MEB974 DESIGN FOR MANUFACTURING II

Design of press tools, dies for forming operations and joining processes; an overview of CAD in tool and die design.

Prerequisite: MEB571

Credit Points: 7 Contact Hours: 3 per week

■ MEB975 DESIGN OF MANUFACTURING SYSTEMS

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

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

Use of computers in machine tool control; computer control of production systems; control of robots; interfacing and networking.

Prerequisite: MEB976

Credit Points: 7 Contact Hours: 3 per week

■ MEB978 MANUFACTURING SYSTEMS ENGINEERING

Concepts and fundamentals of manufacturing system analysis and production management; simulation and modelling of manufacturing systems.

Credit Points: 7 Contact Hours: 3 per week

■ MEB980 DESIGN OF POWER TRANSMISSION SYSTEMS

Design of systems for the generation and transmission of mechanical power; solid elements (gears, clutches, belts etc); 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

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 CONTROL PLANNING

Quality systems, a succinct explanation; case studies; TQC and the Deming Philosophy; getting things into perspective; the business plan; quality management; continuous training and productivity improvement on

the path to business success; quality assurance, its organisation and function; TQ principle; procedures and audits; everyone's responsibility; the role of the QA entity; organisation structure; the quality manual; standards and their applications; procedures preparation and format; the quality plan; inspection and test plans; design control; procurement to control; audit and corrective action; the quality manual assignment. Credit Points: 6 Contact Hours: 1.5 per week

■ MEP201 SAFETY TECHNOLOGY & PRACTICE I

Overview of models of the accident phenomenon; technological background necessary for the understanding of potential hazards with electrical power; construction site mechanical equipment hazards and failure; failure modes of engineering materials; mechanical properties of engineering materials and their effects on failure modes.

Credit Points: 12 Contact Hours: 3 per week

■ MEP273 QUALITY MEASUREMENT & TESTING

Measurement basics; measurement and standards; measurement errors; reliability of measurements; application of statistics; the cumulative distribution function; weights and errors; statistical interpretation of test results; the hypergeometric distribution; the binomial distribution; the poisson distribution; the pascal distribution; the normal distribution; the central limit theorem. Quality assurance in the laboratory; calibration in the laboratory; uncertainty of measurements; the laboratory quality manual; assignments and laboratory audits.

Credit Points: 6 Contact Hours: 1.5 per week

■ MEP301 SAFETY TECHNOLOGY & PRACTICE II

The psychology of industrial accidents; the technology of electrical power plant mechanical equipment and materials failure pertaining to accident prevention; accident prevention and hazard recognition; risk management and control; design and maintenance of personal protection equipment; safe habits and the effective use of personal protection equipment.

Prerequisite: MEP201

Credit Points: 12 Contact Hours: 3 per week

■ MEP371 RELIABILITY & MAINTAINABILITY

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

Subject and class breakdown on the basis of syndicates for leading topic discussion; lectures on quality system requirements; policy and organisation; planning; purchasing; work instructions; inspection; corrective action; review and reorganise; application of topics to AS3900 - 1987/ISO9000 - 1987 to AS3904 - 1987/ISO9004 - 1987; application of topics to AS2990 - 1987; syndicate presentation; quality system requirements and assessment; the mechanics of step-by-step auditing.

Credit Points: 8 Contact Hours: 2 per week

MET101 ENGINEERING DRAWING

Engineering graphics for electrical engineering students; orthographic projection; preparation of circuit diagrams; other drawing relevant to electrical engineering associates; computer-aided drafting techniques.

Credit Points: 7 **Contact Hours:** 3 per week

MET120 ENGINEERING DRAWING I

Lettering and linework; principles of third angle projection; orthographic projection; pictorial drawings; assembly drawings; sectional views; CAD.

Credit Points: 7 **Contact Hours:** 3 per week

MET121 DRAFTING PRACTICE IA

Complements MET120: drawing mechanical engineering components; detail exercises; CAD.

Co-requisite: MET120

Credit Points: 3 **Contact Hours:** 3 per week

MET123 ELECTRICAL ENGINEERING DRAWING IA

Preparation of block diagrams; logic diagrams; circuit diagrams.

Co-requisite: MET101

Credit Points: 3 **Contact Hours:** 3 per week

MET140 ENGINEERING MATERIALS I

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)

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

Basic methods of converting raw material into manufactured goods; an introduction to metrology; safety in the work place.

Credit Points: 8 **Contact Hours:** 3 per week

MET171 TRADE TRAINING IA

Skill training in basic fitting and welding; the practical and applied aspects of fitting and welding skills.

Credit Points: 6 **Contact Hours:** 7 per week

MET175 WORKSHOP TRAINING (MECHANICAL) IA

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

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.

Credit Points: 7 **Contact Hours:** 3 per week

MET210 APPLIED MECHANICS I

Force and its effects; equilibrium; moments of forces; displacement; velocity and acceleration; inertia; friction and friction machines.

Credit Points: 8 **Contact Hours:** 3 per week

MET220 ENGINEERING DRAWING II

Auxiliary views, sectional views; intersections; surface developments; CAD.

Prerequisite: MET120

Credit Points: 8 **Contact Hours:** 3 per week

MET221 DRAFTING PRACTICE IIA

Cam and gear geometry; spatial geometry; mechanical drive component selection; CAD.

Co-requisite: MET220

Credit Points: 3 **Contact Hours:** 3 per week

MET223 ELECTRICAL ENGINEERING DRAWING IIA

Printed circuit board layout; plant layout; transformer construction; single line diagrams; CAD.

Prerequisite: MET120

Credit Points: 3 **Contact Hours:** 3 per week

MET250 THERMODYNAMICS

Basic engineering thermodynamics concepts; systems; reversibility; first and second law; working fluids; IC engine cycles and simple performance evaluations.

Credit Points: 6 **Contact Hours:** 3 per week

MET271 TRADE TRAINING IIA

Skill training in basic metal machining techniques; practical and applied aspects of turning, milling, shaping, surface and cylindrical grinding.

Credit Points: 6 **Contact Hours:** 7 per week

MET310 APPLIED MECHANICS II

Work, power and energy; efficiency; introduction to simple machines; mechanical advantage and velocity ratio; hydrostatics and fluid friction; section properties; shearing force and bending moments; torsion.

Credit Points: 8 **Contact Hours:** 3 per week

MET320 ENGINEERING DRAWING III

Geometric tolerancing; structural drafting; simplified dimensioning techniques; CAD.

Prerequisites: MET120, MET220

Credit Points: 6 **Contact Hours:** 3 per week

MET350 PROCESS ENGINEERING

Steam plant; positive displacement compressors; refrigeration plant; positive expanders; reciprocating engines; gas turbines.

Prerequisite: MET250

Credit Points: 7 **Contact Hours:** 3 per week

MET352 REFRIGERATION & AIR CONDITIONING

Ideal and actual refrigeration cycles including variation of operating conditions; 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

Specialist drafting techniques; electrical/electronic drafting; hydraulic/pneumatic diagrams; CAD.

Prerequisites: MET120, MET220

Credit Points: 7 **Contact Hours:** 3 per week

MET421 MECHANICAL PROJECT IA

Report and presentation; projects selected from list; each project deals with a specific engineering environment.

Prerequisite: MET320

Credit Points: 3 **Contact Hours:** 3 per week

■ MET433 ENGINEERING MATERIALS II

Properties and selection of advanced engineering materials.

Co-requisite: MET140

Credit Points: 8 **Contact Hours:** 3 per week

■ MET475 WORKSHOP (MECHANICAL) IIIA

An introduction to workshop machines and practices.

Co-requisite: MET175

Credit Points: 3 **Contact Hours:** 3 per week

■ MET511 NOISE, STRESS & VIBRATION PRACTICE

Instrumentation used to measure vibrations, noise and stress; fundamental principles and equations related to such measurement; vibration isolation; noise standards; stress/strain transformations.

Co-requisites: MET210, MET310

Credit Points: 6 **Contact Hours:** 3 per week

■ MET560 THERMOFLUIDS

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

Overview of production management; introduction to quality control; types of production; plant layout; scheduling and inventory control.

Prerequisite: MET171

Credit Points: 6 **Contact Hours:** 3 per week

■ MET573 CAD/CAM TECHNOLOGY

Introduction to the fundamentals of CAD/CAM and geometrical modelling; 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

Practical application of shear force and bending moment diagrams; selection of components from BHP manual; use of handbooks; codes and rolled steel section tables; bolted and welded connections; application of standard rolled steel sections; selection of shafts.

Prerequisites: MET210, MET120, MET220

Credit Points: 6 **Contact Hours:** 3 per week

■ MET600 MATERIALS FOR ELECTRICAL ENGINEERS

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

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

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

Selection and application of shafts and couplings; selection of spur, helical and worm reduction unit; determination of gear forces; selection of springs and brakes; curved beams.

Prerequisite: MET580

Credit Points: 7 **Contact Hours:** 3 per week

■ MET733 INDUSTRIAL METALLURGY

Techniques in casting; metallurgical advances in materials and their evaluation.

Prerequisite: MET433

Credit Points: 6 **Contact Hours:** 3 per week

■ MET782 JIG & TOOL DESIGN

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

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

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

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

Computer based drafting: 2-D drafting; design and solid modelling.

Prerequisites: MET120, MET220

Credit Points: 6 **Contact Hours:** 3 per week

■ MET933 INDUSTRIAL TRIBOLOGY

Maintenance and maintenance systems; types and mechanisms of wear; bearings and seals; friction, lubricants; oils; greases; solid lubricants; gas as a lubricant; application of lubricants.

Credit Points: 6 **Contact Hours:** 3 per week

■ MET940 MECHANICAL MEASUREMENTS

Instruments used to measure mechanical quantities; function and method of application; speed; acceleration; frequency; force; torque; pressure; level; flow and temperature.

Credit Points: 8 **Contact Hours:** 3 per week

■ MET960 FLUID POWER

Introduction to fluid power; compressed air systems; graphical symbols; cascade method of pneumatic system design; hydraulic components; hydraulic circuits.

Credit Points: 7 **Contact Hours:** 3 per week

■ MET961 FLUID MECHANICS

Characteristics of pumps; turbines; compressors and fans; fluid coupling and torque converters; Friction

losses in pipes and fittings. Analysis of complete pumping systems.

Prerequisite: MET560

Credit Points: 7 **Contact Hours:** 3 per week

■ **MET971 INDUSTRIAL PRACTICE**

Human resource management; work study; aspects of communication; leadership and teamwork; practical applications in planning and control; basic engineering metrology.

Credit Points: 7 **Contact Hours:** 3 per week

■ **MNB002 PSYCHOLOGY FOR ENGINEERS**

Introductory psychology; basic elements of transactional analysis and their application to work settings; self-concept 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**

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:** 2 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: 4 **Contact Hours:** 2 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**

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**

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 educate 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:** 2 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:** 2 per week

■ **MNB111 INTRODUCTORY PSYCHOLOGY FOR HEALTH PROFESSIONALS**

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 managers' decisions and other contemporary issues in Australian microeconomics will be examined.

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

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. (For Bachelor of Business – Public Administration only).

Note: One hour per week is set aside for a communication component.

Credit Points: 12 **Contact Hours:** 4 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

■ 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 DEVELOPMENTAL PSYCHOLOGY

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

Introduction to the field of statistical inference; fields of management and commerce; statistical analysis; use of microcomputer statistical package.

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, government 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

■ MNB302 PRINCIPLES OF MANAGEMENT

Introduction to the concepts, principles and practical techniques involved in managing organisations. Topics covered include strategic and operational planning; the organising function; staffing of organisations; motivation and effective leadership; the dynamics of groups and the management of organisational culture; the design and operation of effective control systems; the management of quality; managing change and conflict.

Credit Points: 9 **Contact Hours:** 2 per week

■ MNB319 HEALTH INFORMATION MANAGEMENT I

An introduction to the principles of health record management and their application in hospitals. The subject will present an overview of the interrelationships 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 health information managers 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 AND DEVELOPMENT

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, al-

gorithms. 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 coordination 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 (eg, 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: MNB361 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 eg, 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 SPSSX Computer

work on the VAX as well as on certain packages on the PCs.

Credit Points: 12 **Contact Hours:** 3 per week

■ MNB385 ADMINISTRATIVE THEORY

Public administration draws 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.

Prerequisites: 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-for-profit 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.

Prerequisite: 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:** 2 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: MNB253

Credit Points: 12 **Contact Hours:** 3 per week

■ MNB412 MANAGEMENT & ORGANISATIONS

Introduction to the concepts, principles and practical techniques involved in managing organisations.

Topics covered include strategic and operational planning; the organising function; staffing of organisations; motivation and effective leadership; the dynamics of groups and the management of organisational culture; the design and operation of effective control systems; the management of quality; managing change and conflict.

Credit Points: 12 **Contact Hours:** 3 per week

■ MNB413 APPLIED COGNITIVE PSYCHOLOGY

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.

Prerequisite: MNB154 or completion of 96 credit points of degree study

Credit Points: 9 **Contact Hours:** 2 per week

■ MNB419 HEALTH INFORMATION MANAGEMENT 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

■ MNB450 PHYSIOLOGICAL & HEALTH PSYCHOLOGY

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: MNB154 or first year of course

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 Points: 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, MNN100 or MNB516

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.

Prerequisite: 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 (eg, 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 (eg, 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.

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, 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 tech-

niques to survey analysis. Students will use SPSSX on the VAX as well as stategraphics on the PC.

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.

NB: For students enrolled in the Public Administration degree only. This subject includes a one hour per week communication component (4 hour subject).

Prerequisite/Co-requisite: MNB385

Credit Points: 12 **Contact Hours:** 4 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 BBus – Public Administration, or 8 subjects in BBus – Management.

Credit Points: 12 **Contact Hours:** 3 per week

■ MNB491 RETAILING MANAGEMENT I

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 MNB183 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 administration. Management science (operations research) techniques are learned and applied in case studies from the health industry.

Prerequisite: 16 subjects in BBus – 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. Private 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 private 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 his or her 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 ORGANISATIONAL 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 either MNB385 or MNB154

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 Co-ordinator

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, health information management, health management, statistics, epidemiology, 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 record department; group practice; local authority health department, State health department.

Credit Points: 12 **Contact Hours:** 3 per week

■ MNB519 HEALTH INFORMATION MANAGEMENT III

This subject is designed to enable the students to recognise and use effectively all types of classification systems utilised for the retrieval of health information. It builds on to student's experience from MNB419 by refining and enhancing 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 in 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: MNB491

Credit 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 and MNN202

Credit Points: 12 **Contact Hours:** 3 per 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 **Contact 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 Points: 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 eg, 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; functions, effectiveness and coordination problems.

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 topics such as quality assurance, 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 per 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 and MNB252 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), or 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.

Prerequisites: 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

■ **MNB584 LOCAL GOVERNMENT ADMINISTRATIVE PRACTICE I**

The powers of central government; the constitution of the Local Authority; its committees and its officials; by-laws; the conduct of elections; budgetary administration; the administration of Land Subdivision; Environmental Legislation and Health Acts; the provision of water and sewerage and building controls.

Credit Points: 12 **Contact Hours:** 3 per week

NB: Offered in Semester 1 in even-numbered years only.

■ **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.

NB: For students enrolled in the Public Administration degree only. This subject includes a one hour per week communication component (4 hour subject).

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 legitimisation.

Prerequisites: MNB451, MNB351 or MNB181, MNB385

Credit Points: 12 **Contact Hours:** 4 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:** 2 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 and MNB491 or MNB204 and MNB391 or MNB211

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 coordination and correlation of managerial expectations; hospital management in comparison with other managerial systems eg, commerce, government. This subject continues the case study 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 multidisciplinary perspective, focused upon managerial considerations.

Prerequisite: MNB503

Credit Points: 12 **Contact Hours:** 3 per week

■ MNB612 TRANSNATIONAL 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 MNB203 or MNB811

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, structure 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: ISB392

Credit Points: 12 **Contact Hours:** 4 per week

■ MNB619 HEALTH INFORMATION MANAGEMENT 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 information 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 health information services. The clinical classification component will concentrate on nosologic 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 firm 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, eg, 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 and MNB491 or MNN204 and 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; international monetary reform; the monetary unification of Germany.

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 topics. 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

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, eg, 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.

■ 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 – Management degree, and aims to integrate student's previous studies.

Prerequisites: MNB551 or MEB670

Credit Points: 12 **Contact Hours:** 3 per week

■ MNB661 INTERVIEWING & 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 interrelationships. 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 practising 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: MNN100 or MNB461 or completion of first year of course and either MNB154 or MNB516
Credit Points: 12 **Contact Hours:** 3 per week

■ MNB666 COUNSELLING FOR HEALTH PROFESSIONALS

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
NB: Offered in Semester 2 in even-numbered years only.

■ MNB684 LOCAL GOVERNMENT ADMINISTRATIVE PRACTICE II

The constitution and administrative arrangements of the Brisbane City Council; the miscellaneous powers and duties of the Local Authority; natural justice in Local Government; land acquisition; flood mitigation; Local Government Court decisions; sources of funds and the Grants Commission; relationships among Local Authorities and with other levels of Government; and the Local Government Association.

Prerequisite: MNB584
Credit Points: 12 **Contact Hours:** 3 per week
NB: Offered in Semester 2 in even-numbered years only.

■ 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

Continuation of MNB588. A focus upon the implementation to evaluation phases. It also aims at developing the student's capacity to analyse policy content, drawing upon approaches and methods developed in other subjects, and within the subject itself.

Prerequisite: MNB588, MNB482
Credit Points: 12 **Contact Hours:** 4 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: MNB391, MNB491 or MNB492 (MNN246 - MNN209 and 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.

Prerequisites/Co-requisites: 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

■ 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 dif-

ferent 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 extend 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 (eg, 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

Integrates and focuses students' earlier studies by developing a general manager's knowledge, analytical understanding and action-taking 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, and strategy implementation. Teaching 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

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.

Credit Points: 12 **Contact Hours:** 3 per week

■ MNN602 HEALTH PLANNING, MANAGEMENT & EVALUATION

Application of the theory and principles of planning, management and evaluation to health services; a detailed analysis of health services planning techniques; information requirements and decision making for the strategic management of health services; the principles of financial and personnel management required for the effective development and utilisation of health care; process and program evaluation in health services; the appreciation of evaluation research and cost-effectiveness.

Credit Points: 12 **Contact Hours:** 3 per week

■ MNN603 ENVIRONMENTAL & OCCUPATIONAL HEALTH

Principle of environmental and occupational health; pollutional control and worker protection.

Credit Points: 12 **Contact Hours:** 3 per week

■ MNN604 PRINCIPLES OF EPIDEMIOLOGY

Basic epidemiologic concepts; understanding and control of chronic diseases; unique aspects of infectious diseases.

Credit Points: 12 **Contact Hours:** 3 per week

■ MNN605 STATISTICAL METHODS & COMPUTING

Basic concepts of biostatistics; application and interpretation; practical introduction to statistical computing.

Credit Points: 12 **Contact Hours:** 3 per week

■ MNN606 SOCIAL & BEHAVIOURAL SCIENCES IN PUBLIC HEALTH

Social and behavioural influences on health and how they may be utilised to improve health of populations.

Credit Points: 12 **Contact Hours:** 3 per week

■ MNN607 DISSERTATION

Credit Points: 48

■ MNN608 ECONOMICS & HEALTH

The role of economics in planning and decision making in health care; application of economic analysis to the health care industry; issues related to the demand for health care; the supply of health care and the market for health care.

Credit Points: 12 **Contact Hours:** 3 per week

■ MNN609 HEALTH CARE FINANCE

The financial management aspects of health care delivery in Australia; sources of finance at federal, state and local government levels; priority setting; budgetary processes; responsibilities for provision of various services.

Credit Points: 12 **Contact Hours:** 3 per week

■ MNN610 HEALTH SERVICES MANAGEMENT

Evolution and changing status of management in health services; interactions between general managers, doctors and others; power/authority concepts; leadership and leadership styles; principles of motivating people and managing conflict; effective decision making (by individuals and groups); theories and methods of effective communication, both verbal and written; performance assessment and outcome measures in health management.

Credit Points: 12 **Contact Hours:** 3

■ MNN611 ADVANCED HEALTH PLANNING

The planning of action programs of prevention, care and cure; students taking this subject will previously have studied the determination of health needs using epidemiological methods. This subject has a bias towards ensuring participation in the planning process by all interests affected by the program.

Prerequisites: MNN604, MNN602

Credit Points: 12 **Contact Hours:** 3 per week

■ MNN612 ADVANCED HEALTH EVALUATION

A study of evaluation research with applications to the health fields; the theory, practice; the utilisation of evaluation results and the administration of evaluation studies.

Prerequisite: MNN602

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, MNN806

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, MNN806

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, MNN806

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 non-profit organisations and the relevance of marketing theory to these institutions, and will include the developing area of international marketing.

Prerequisites: MNN805, MNN806

Credit Points: 12 **Contact Hours:** 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:** 4 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/her 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 part-time) 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.

Prerequisites: 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 a 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: 4 **Contact Hours:** 3 per week

■ MNP112 QUALITY SYSTEM MANAGEMENT

Introduction to the role of quality in modern organisations; relation between quality management and strategic management as a total management philosophy; comparative practices in quality: Japan, Europe, North America, and the Pacific Asian Region; implications for Australia; organising for quality: structure, quality plan and quality systems; managing with statistical tools to achieve continuous company-wide incremental improvement.

Credit Points: 6 **Contact Hours:** 3 per week

■ MNP113 MANAGING COMMUNICATIONS FOR QUALITY

The importance of information and two-way communication for the development and implementation

of the quality plan; introduction to market research to gain information on customer requirements and its impact on the management of quality; communication as part of a quality process, involving management, other employees, customers and suppliers in the network; consultation and involvement strategies; communication of policy, commitment, and objectives.

Credit Points: 6 **Contact Hours:** 3 per week

■ MNP123 HUMAN FACTORS IN QUALITY

The relationship between people in the organisation and its technical structure and system, and behavioural concepts applied to the management of quality; intrapersonal, interpersonal and social factors, including motivation, attitudes, values, learning and organisational culture; ergonomics and workplace design and occupational health and safety.

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 multifaceted 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 creation and development of new business ventures; the evaluation of the entrepreneurial founder, analysis of the business opportunity itself, and assessment of the resources required for the venture. Students, in teams, will work closely with inventors/entrepreneurs to assess the feasibility of actual new ventures, and to develop comprehensive, professional standard business plans for those ventures.

Prerequisites: 96 credit points in the MBA program
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

A course introducing the basic biochemistry of major groups of biologically important compounds, includ-

ing carbohydrates, lipids, nucleic acids and protein synthesis and proteins. Biochemical homeostasis in biological systems is considered.

Credit Points: 8 **Contact Hours:** 4 per week

■ MSA112 BIOLOGICAL CHEMISTRY II

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

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

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

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

A course of lectures and practical work on the principles, care and effective usage of basic laboratory equipment including glassware, plastics, balances, spectrophotometers, flame photometers, 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

■ MSA124 LABORATORY INSTRUMENTATION II

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

■ MSA161 MICROBIOLOGY I

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 aimed at developing the manipulative skills necessary for laboratory identification of microbial forms.

Credit Points: 8 **Contact Hours:** 3 per week

■ MSA162 MICROBIOLOGY II

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

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

A course applying the basic knowledge of immunology gained in MSA435 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

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 **Contact Hours:** 4 per week

■ MSA442 CLINICAL MICROBIOLOGICAL TECHNIQUES IV

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 HI

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

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**

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.

Prerequisite: MSA112, PNA170, PNA171

Credit Points: 8 **Contact Hours:** 4 per week

■ **MSA466 CYTOLOGICAL TECHNIQUES IV**

A course of lectures and associated practical work presenting specialised preparative methods for non-gynaecological 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**

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.

Prerequisites: MSA112, PNA171

Credit Points: 8 **Contact Hours:** 4 per week

■ **MSA472 CLINICAL BIOCHEMICAL TECHNIQUES IV**

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**

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**

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**

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

■ **MSB120 INTRODUCTION TO PATHOLOGY**

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.

Prerequisite: PNB125

Credit Points: 6 **Contact Hours:** 3 per week

■ **MSB145 LABORATORY TECHNOLOGY II**

A course dealing with the theoretical and practical aspects of instrumental analysis in the clinical laboratory. Topics covered include glassware, plastics, balances, spectrophotometers, flamephotometers, autotitrators, 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**

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**

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**

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

■ **MSB310 BIOCHEMICAL METHODOLOGY III**

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, MAB227

Co-requisite: MSB415

Credit Points: 8 **Contact Hours:** 4 per week

■ **MSB320 SYSTEMATIC PATHOLOGY**

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:** 3 per week

■ MSB402 MICROBIOLOGY II

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

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.

Prerequisite: CSB259

Credit Points: 8 **Contact Hours:** 3 per week

■ MSB408 VIROLOGY IV

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 per week

■ MSB410 BIOCHEMICAL METHODOLOGY IV

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

A study of the mechanisms of the immune process including the nature of antigen, antibodies, antigen-antibody reactions, antibody formation, control of the humoral and cell-mediated immune responses, hypersensitivity and allergy and immunisation of man against infections.

Prerequisites: PNB465, PNB231, MSB450

Credit Points: 8 **Contact Hours:** 4 per week

■ MSB415 BIOCHEMISTRY III

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, MSB101

Credit Points: 10 **Contact Hours:** 5 per week

■ MSB416 BIOCHEMISTRY IV

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

Credit Points: 10 **Contact Hours:** 5 per week

■ MSB420 IMAGING PATHOLOGY

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

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

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.

Prerequisites: MSB445, PNB132, PNB465

Co-requisite: MSB416

Credit Points: 8 **Contact Hours:** 4 per week

■ MSB430 DISEASE PROCESSES IV

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, urogenital system, endocrine system, nervous system, haematologic system and skin.

Prerequisite: PNB163 or PNB131

Co-requisites: PNB465 or PNB435

Credit Points: 4 **Contact Hours:** 2 per week

■ MSB445 LABORATORY TECHNOLOGY III

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

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 or MSB473 (except optometry students)

Credit Points: 6 **Contact Hours:** 3 per week

■ MSB454 MICROBIOLOGY IV

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 or MSB474

Credit Points: 8 **Contact Hours:** 4 per week

■ MSB471 BIOCHEMISTRY IV

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

Credit Points: 8 **Contact Hours:** 4 per week

■ MSB473 BIOCHEMISTRY III

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 bioenergetics including the mechanisms of electron transport and synthesis at ATP.

Prerequisite: MSB101, CHB150, CHB250

Credit Points: 6 **Contact Hours:** 3 per week

■ MSB474 BIOCHEMISTRY IV

The biochemistry of polysaccharides; carbohydrate metabolism; lipid biochemistry including structure-function relationships; lipid metabolism; amino acid catabolism and nitrogen excretion; the structural biochemistry of the nucleic acids; basic mechanisms in protein biosynthesis including an introduction to molecular genetics.

Prerequisite: MSB473

Credit Points: 6 **Contact Hours:** 3 per week

■ MSB492 HISTOPATHOLOGY IV

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

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

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 and 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

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: MSB408

Credit Points: 8 **Contact Hours:** 3 per week

■ MSB520 BIOCHEMISTRY V

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 and bioenergetics.

Prerequisite: MSB416

Credit Points: 12 **Contact Hours:** 5 per week

■ MSB521 BIOCHEMICAL SEPARATIONS

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 MOLECULAR BIOLOGY

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.

Prerequisites: MSB416, MSB454

Credit Points: 10 **Contact Hours:** 5 per week

■ MSB610 MICROBIAL TECHNOLOGY

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; biodegradation and bioleaching.

Prerequisite: MSB511

Credit Points: 10 **Contact Hours:** 5 per week

■ MSB611 APPLIED MICROBIOLOGY

An advanced course of lectures and practical sessions with emphasis upon the applied aspects of microbiology. Topics 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

Advanced studies in protein biochemistry, including structure, analysis and evolution of proteins, and their special properties; applications in the areas of enzymology and membrane biochemistry.

Prerequisite: MSB410, MSB416

Credit Points: 12 **Contact Hours:** 5 per week

■ MSB621 ANALYTICAL BIOCHEMISTRY VI

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

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

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.

Prerequisites: PNB305, PNB405

Credit Points: 10 **Contact Hours:** 4 per week

■ MSB712 IMMUNOLOGY V

This unit builds on the basic understanding provided in MSB412 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.

Prerequisites: MSB412, MSB416, MSB454

Credit Points: 8 **Contact Hours:** 4 per week

■ MSB713 IMMUNOHAEMATOLOGY VI

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 MSB412 and MSB712 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

This course introduces the study of chemical aspects of human life in health and illness and discusses the application of chemical laboratory methods to diagnosis, 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

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

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

This unit continues the study of blood diseases. The format follows the one outlined for MSB726. Topics in this unit include: haemolytic anaemia, leukaemia and related diseases, paediatric haematology, blood disorders in the elderly and veterinary haematology.

Prerequisite: MSB726

Credit Points: 8 **Contact Hours:** 4 per week

■ MSB755 MICROBIOLOGY V

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

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

Credit Points: 16 **Contact Hours:** 7 per week

■ MSB761 FUNDAMENTALS OF MEDICINE I

This subject provides students with the theoretical basis for an understanding of the process of medical care. These students 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**

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.

Prerequisites: MSB492, MSB416, PNB465, MSB445, PNB132

Credit Points: 8 **Contact Hours:** 4 per week

■ **MSB793 HISTOPATHOLOGY VI**

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**

An introduction to the microbial world with emphasis on organisms causing disease in humans and on host-parasite 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**

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**

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 EPIDEMIOLOGY**

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**

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**

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**

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**

An introduction to the principles and applications of epidemiology with emphasis given to its scope and value in establishing disease aetiology. 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

■ **MSN158 ULTRASONIC PATHOLOGY**

Pathology as applicable to diagnostic ultrasound; basic embryology and genetics.

Credit Points: 6 **Contact Hours:** 2 per week

■ **MSN306 PATHOPHYSIOLOGY**

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**

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, eg, 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

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

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: haemopoietic 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 week

■ MSN512 HISTOPATHOLOGY I

An in-depth review of recent advances and modern methods in diagnostic histopathology. Major topics will include immunohistochemistry, enzyme histochemistry and transmission electron microscopy methods.

Prerequisite: 96 credit points in Master of Health Science

Credit Points: 12 **Contact Hours:** 3 per week

■ MSN515 MICROBIOLOGY I

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

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 per semester

Contact Hours: 3 per week

■ MSN610 CLINICAL BIOCHEMISTRY II

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, neurochemistry and neural disorders, cancer-as-

sociated 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

This unit has the same aims and objectives as for MSN511. Topics 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

Investigation of 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

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 MICROSCOPY

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 X-ray 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

■ MSP105 MOLECULAR DIAGNOSIS OF DISEASE

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

The isolation of mRNA and DS viral RNA; DNA analysis using Restriction Fragment Length Polymor-

phisms (RFLPs) and nucleotide sequence determination in plasmids and bacteriophage M13; separation of chromosomes using Pulsed Field Gel Electrophoresis (PFGE); oligonucleotide synthesis and the application of gene probes in diagnosis; electroporation and chemical transformation of cells; and DNA amplification using the Polymerase Chain Reaction (PCR).

Credit Points: 10 **Contact Hours:** 5 per week

■ MSP121 RESEARCH STRATEGIES I

This subject consists of a series of seminars presented by staff of the Faculties of Health 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

This subject consists of a series of seminars presented by staff of the Faculties of Health and 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 BIOMEDICAL SCIENCE I

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: 25 **Contact Hours:** 1 per week

■ MSP124 READINGS IN BIOMEDICAL SCIENCE II

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: 25 **Contact Hours:** 1 per week

■ MSP125 PROJECT

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 per semester

Contact Hours: 9 per week

■ MSP127 TOPICS IN BIOTECHNOLOGY I

A series of special tutorials, lectures or seminars on biotechnology oriented topics such as: commercial perspectives of a biotechnology company; funding for commercial research; research strategies in biotech-

nology; methods of reviewing the biotechnology literature; DNA and protein sequence data banks. Students will also be required to present a seminar on some aspect of biotechnology research.

Credit Points: 4 **Contact Hours:** 1 per week

■ MSP128 TOPICS IN BIOTECHNOLOGY II

A series of special tutorials, lectures or seminars on biotechnology oriented subjects such as: guidelines for the use of genetically modified organisms; funding for biotechnology projects; patent protection for ideas and products; intellectual property agreements; commercial perspectives of a biotechnology company. Students will also be required to present a seminar on some aspect of biotechnology research.

Credit Points: 4 **Contact Hours:** 1 per week

■ MSP 146 PROJECT

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 per semester

Contact Hours: 3 per week

■ MSP152 FOOD MICROBIOLOGY

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

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

■ NSB111 FOUNDATIONS OF NURSING PRACTICE II

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

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

■ NSB120 NURSING IN SOCIAL SYSTEMS I

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

■ NSB130 PROFESSIONAL ASPECTS OF NURSING I

Use of a 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

This introductory unit emphasises the ethical, 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

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

■ NSB211 THEORIES OF NURSING II

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.

Prerequisites: NSB210, NSB111

Co-requisite: MAB156

Credit Points: 9 **Contact Hours:** 3 per week

■ NSB212 CLINICAL PRACTICE II

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

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

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

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.

Prerequisites: PNB115, PNB116

Co-requisites: NSB212, NSB210

Credit Points: 18 **Contact Hours:** 8 per week

■ NSB241 NURSING PRACTICE II

Care coordinator, change agent and client advocate components of the nursing role – application of management principles to job assignment; documentation; cooperative 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

Actiological 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

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

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

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

Focuses on the acquisition 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

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 week block following semester

■ NSD220 PERSPECTIVES FOR NURSING PRACTICE II

Critiques health care in Australia. Analyses nursing in hospitals. Determines specific attributes of the nursing roles of clinicians and teacher.

Prerequisites: NSD120

Credit Points: 6

Contact Hours: 2 per week

■ NSD221 CONCEPTS FOR NURSING PRACTICE II

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 IIA

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

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**

Reviews the concept of the health care team. Addresses the roles of care coordinator and researcher.
Prerequisite: NSD220
Credit Points: 6 **Contact Hours:** 2 per week

■ **NSD321 CONCEPTS FOR NURSING PRACTICE III**

Addresses the effects of pathophysiology or psychopathology on human needs (196 respiratory, cardiovascular, fluid/electrolyte imbalance, surgical intervention. Examines independent and interdependent strategies to promote health – maintenance, restoration, reorganisation.
Prerequisite: NSD221 **Co-requisite:** NSD322
Credit Points: 6 **Contact Hours:** 3 per week

■ **NSD322 CLINICAL PRACTICE IIIA**

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**

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 week block following semester

■ **NSD420 PERSPECTIVES FOR NURSING PRACTICE IV**

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**

Addresses the effects of pathophysiology or psychopathology on human needs – urinary, gastrointestinal, musculo-skeletal. Examines emergency/critical aspects of care. Examines independent and interdependent strategies to promote health – maintenance, restoration, reorganisation.
Prerequisite: NSD221 **Co-requisite:** NSD422
Credit Points: 6 **Contact Hours:** 3 per week

■ **NSD422 CLINICAL PRACTICE IVA**

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**

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 week block following semester

■ **NSD520 PERSPECTIVES FOR NURSING PRACTICE V**

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

■ **NSD521 CONCEPTS FOR NURSING PRACTICE V**

Addresses the effects of pathophysiology or psychopathology on human needs – reproductive, neurological, psychiatric. Examines the childbearing experience. Examines independent and interdependent strategies to promote health – maintenance, restoration, reorganisation.
Prerequisite: NSD221 **Co-requisite:** NSD522
Credit Points: 6 **Contact Hours:** 4 per week

■ **NSD522 CLINICAL PRACTICE VA**

Focuses on the acquisition of knowledge and experience in interpersonal, problem-solving and psychomotor skills. Experience takes place in the college laboratory, community and hospital.
Credit Points: 9 **Contact Hours:** 15 per week

■ **NSD523 CLINICAL PRACTICE VB**

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**

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**

Addresses the effects of pathophysiology and psychopathology on human needs – integumentary, endocrine, oncologic, immunologic problems. Examines independent and interdependent strategies to promote health – maintenance, restoration, reorganisation.
Prerequisite: NSD221 **Co-requisite:** NSD622
Credit Points: 6 **Contact Hours:** 4 per week

■ **NSD622 CLINICAL PRACTICE VIA**

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**

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 Hours:** 120 per week

■ NSN102 CONCEPTS FOR ADVANCED CLINICAL NURSING

In recent years there has been significant development in the role of the professional nurse as an advanced-level 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

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

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

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

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

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

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 Points: 12 **Contact Hours:** 3 per week

■ NSN109 PRIMARY HEALTH CARE NURSING II

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

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 Hours:** 3 per week

■ NSN111 PSYCHIATRIC/MENTAL HEALTH NURSING I

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

In this subject, particular attention is given to family dynamics and behaviour as basic processes by which nursing assessment and intervention occur. By focusing 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

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

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

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

■ NSN203 HUMAN SEXUALITY & HEALTH

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

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

The intention of this unit of study is to increase flexibility and provide the opportunity for in-depth 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

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

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

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 within 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

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

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

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

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

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

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: 6 per semester

Contact Hours: 1.5 per week

■ NSN403 DISSERTATION

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

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

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

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

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

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

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

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

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

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 Hours:** 9 per week

■ OPB527 DISEASES OF THE EYE V

The detection, diagnosis, referral and management of ocular disease. General pathological considerations. The writing of reports, referral letters and referral procedures. The nature, aetiology and management of congenital, developmental, dystrophic and degenerative anomalies of the external and internal ocular structures and ocular adnexae. The ocular manifestation of systemic disease including cardiovascular, 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

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.

Prerequisite: OPB505

Co-requisites: OPB608, OPB609, OPB627

Credit Points: 8 **Contact Hours:** 4 per week

■ OPB608 OCULAR PHARMACOLOGY

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

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

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

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

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

Credit Points: 24 **Contact Hours:** 13

■ OPB709 OPTOMETRY VII

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

Credit Points: 10 **Contact Hours:** 5 per week

■ OPB717 CONTACT LENS STUDIES VII

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

Credit Points: 6 **Contact Hours:** 2 per week

■ OPB750 PROJECT

Students are required to undertake project work in Year 4, Semesters 1 and 2. Students work in groups of up to three 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 Year 4, Semester 2 colloquium.

Co-requisites: OPB709, MAB258

Credit Points: 5 per semester **Contact Hours:** 3 per week

■ OPB803 OCCUPATIONAL/PUBLIC HEALTH OPTOMETRY

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

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

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

■ PHA213 MEDICAL INSTRUMENTATION II

Basic concepts and procedures in diagnostic instrumentation; transducer principles; characteristics of physiological signals; methods of measurement and instrumentation principles. Hospital visits may be included.

Prerequisite: PHA154

Credit Points: 8 **Contact Hours:** 4 per week

■ PHA561 CARDIAC INSTRUMENTATION

Knowledge and understanding of cardiac instrumentation; the application of this knowledge to situations in hospital clinics.

Prerequisite: PHA213

Credit Points: 6 **Contact Hours:** 3 per week

■ PHA562 CARDIAC MEASUREMENT TECHNIQUES

Knowledge of the chosen clinical measurement environment within a hospital by controlled clinical measurement experiences in approved clinical measurement departments. Hospital visits may be included.

Prerequisite: PHA213

Credit Points: 9 **Contact Hours:** 3 per week

■ PHA661 RESPIRATORY INSTRUMENTATION

Knowledge and understanding of respiratory instrumentation; the application of this knowledge to situations in hospital clinics.

Prerequisite: PHA213

Credit Points: 6 **Contact Hours:** 3 per week

■ PHA662 RESPIRATORY MEASUREMENT TECHNIQUES

Knowledge of the chosen clinical measurement environment within a hospital by controlled clinical measurement experiences in approved clinical measurement departments. Hospital visits may be included.

Prerequisite: PHA213

Credit Points: 9 **Contact Hours:** 3 per week

■ PHA761 NEUROLOGICAL INSTRUMENTATION

Knowledge and understanding of instrumentation used in electroencephalography (EEG); electromyography (EMG); neurosensory measurement environments; the application of this knowledge in situations in hospital clinics.

Prerequisite: PHA213

Credit Points: 6 **Contact Hours:** 3 per week

■ PHA762 NEUROLOGICAL MEASUREMENT TECHNIQUES

Knowledge of the chosen clinical measurement environment within a hospital by controlled clinical measurement experiences in approved clinical measurement departments. Hospital visits may be included.

Prerequisite: PHA213

Credit Points: 6 **Contact Hours:** 3 per week

■ PHA861 UROLOGICAL INSTRUMENTATION

Knowledge and understanding of instrumentation used in urological, renal and ultrasonic imaging measurement environments; the application of this knowledge in situations in hospital clinics.

Prerequisite: PHA213

Credit Points: 6 **Contact Hours:** 3 per week

■ PHA862 UROLOGICAL MEASUREMENT TECHNIQUES

Knowledge of the chosen clinical measurement environment within a hospital by controlled clinical measurement experiences in approved clinical measurement departments. Hospital visits may be included.

Prerequisite: PHA213

Credit Points: 9 **Contact Hours:** 3 per week

■ PHB104 INTRODUCTORY PHYSICS

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

A course of lectures, tutorials and laboratory work covering dynamics, fluid mechanics, mechanical properties of matter, gravitation and geometrical optics.

Co-requisite: PHB104 unless Senior Physics has been undertaken.

Credit Points: 8 **Contact Hours:** 3 per week

■ PHB111 PHYSICS IB

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

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

■ PHB144 APPLIED SCIENCE FOR DESIGNERS I

Physics for environmental design: energy and energy transfer, heat, light and sound; introduction to mechanics; principles of hydraulics and fluid flow; electricity, magnetism and basic electronics. Chemistry for environmental design: basic chemical properties of commonly occurring materials, natural and artificial; common chemical processes in buildings and artefacts. Earth science and climatology for environmental design: land forms and their origins; introduction to the physical and horticultural properties and behaviour of soils and rocks.

Credit Points: 6 **Contact Hours:** 3 per week

■ PHB150 PHYSICS 1H

Basic physical measurements; mechanics; fluids; heat; vacuum physics; waves, acoustics, ultrasonics and optics, and the instrumentation used to measure biological parameters.

Credit Points: 12 **Contact Hours:** 6 per week

■ PHB170 PHYSICS FOR SURVEYORS

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

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

A course of tutorials, lectures and laboratory work on thermal physics and electromagnetic fields.

Prerequisite: PHB104 or Senior Physics

Credit Points: 8 **Contact Hours:** 3 per week

■ PHB211 PHYSICS IIB

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 IIA

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.

Credit Points: 6 **Contact Hours:** 3 per week

■ PHB240 OPTICS II

The principles of geometrical optics as they apply to rectilinear propagation, reflection and refraction for paraxial rays for monochromatic light for single surfaces, thin lenses, cylindrical, spherocylindrical and toric lenses, lens systems in air, the eye and a selection of optical instruments; study of the optics of monochromatic and chromatic aberrations and of photometry and colour.

Prerequisite: PHB150 **Co-requisite:** OPB132

Credit Points: 14 **Contact Hours:** 7 per week

■ PHB250 PHYSICS IIH

An extension of PHB150 including a.c., d.c. circuit theory, with emphasis on electronics and instrumentation, fields, modem and nuclear physics.

Credit Points: 10 **Contact Hours:** 4 per week

■ PHB252 KINESIOLOGY & BIOMECHANICS

Principles; methods and interpretation of measurement of human movement, particularly associated with the lower limb; principles of lower limb function (standing, walking and running).

Credit Points: 6 **Contact Hours:** 2 per week

■ PHB260 PHYSICS IIG

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

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

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

A program of lectures and practical sessions relating to radiography of the skeletal system.

Prerequisite: PNB125, PHB178

Co-requisite: PNB225

Credit Points: 14 **Contact Hours:** 7 per week

■ PHB279 CLINICAL RADIOGRAPHY I

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

An introduction to the techniques of radiotherapy treatment planning.

Credit Points: 12 **Contact Hours:** 6 per week

■ PHB287 MEGAVOLTAGE THERAPY I

An introduction to the basic techniques of radiotherapy including beam direction and defining devices, modification of beam and dosimetry.

Prerequisite: PHB178, PHB125

Credit Points: 6 **Contact Hours:** 3 per week

■ PHB289 CLINICAL RADIOTHERAPY I

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 I

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

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

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

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, creep 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

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

■ PHB340 OPTICS III

The application of geometrical optics to selected aspects of optometry including lens form and thickness, contact lenses, spectacle lens design and spherical surfaces; the wave nature of light with em-

phasis on interference, interferometry, diffraction and polarisation; and including the specialised topics of optical processing, lasers and the evaluation of optical systems.

Prerequisites: PHB240, PHB250

Credit Points: 14 **Contact Hours:** 7 per week

■ **PHB373 NUCLEAR MEDICINE IMAGING I**

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**

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**

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**

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**

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**

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 Hours:** 2 per week

■ **PHB387 MEGAVOLTAGE THERAPY II**

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**

Practical exercises in megavoltage 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**

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**

A study of relativity and particle physics.

Prerequisite: As for PHB310

Credit Points: 8 **Contact Hours:** 3 per week

■ **PHB404 SAFETY TECHNOLOGY II**

Examines the physical hazards present in the workplace and equips students with the skills to assess these hazards and recommend suitable control measures. The subject includes an examination of such factors as noise, vibration, fire and explosion, and ionising and non-ionising radiation.

Prerequisites: PHB250, PHB300, MEB035

Credit Points: 8 **Contact Hours:** 4 per week

■ **PHB405 INSTRUMENTATION**

A course of lectures, laboratory work and field trips on instrumentation systems, transducers, signal processing, telemetry, control systems, display and recording systems.

Prerequisite: PHB308

Credit Points: 8 **Contact Hours:** 3 per week

■ **PHB408 ELECTRONICS II**

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**

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**

This subject 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**

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**

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**

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**

An introduction to the capabilities of computer hardware and software, and image processing.

Credit Points: 8 **Contact Hours:** 3 per week

■ PHB476 SPECIAL PROCEDURES

A course of lectures and practical exercises on specialised techniques of radiography, including the skull, obstetrics, gynaecology, CNS and paediatric radiography.

Prerequisites: PHB376, PHB379

Credit Points: 8 **Contact Hours:** 3 per week

■ PHB479 CLINICAL RADIOGRAPHY III

Clinical experience in approved departments in radiographic examinations discussed in PHB376.

Prerequisites: PHB376, PHB379

Credit Points: 8 **Contact Hours:** 4 per week

■ PHB481 DOSIMETRY

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

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

A course of lectures on the principles underlying the choice of treatment of cancer in specific sites including consideration of associated treatment.

Credit Points: 6 **Contact Hours:** 3 per week

■ PHB487 MEGA VOLTAGE THERAPY III

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

Clinical experiences in approved departments in techniques of megavoltage therapy.

Prerequisites: PHB389, PHB387

Co-requisite: PHB487

Credit Points: 8 **Contact Hours:** 4 per week

■ PHB501 APPLIED QUANTUM MECHANICS

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

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 and MAB412

Credit Points: 8 **Contact Hours:** 3 per week

■ PHB508 ELECTRONICS III

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

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 technique. Industrial visits may be included.

Prerequisite: PHB312

Credit Points: 8 **Contact Hours:** 3 per week

■ PHB516 EXPERIMENTAL PHYSICS V

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

A course of lectures and practical exercises on non-film image formation evaluation. Information theory.

Credit Points: 4 **Contact Hours:** 2 per week

■ PHB573 DIGITAL IMAGING MODALITIES

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

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

■ PHB575 MEDICAL RADIATIONS COMPUTING II

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

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

■ PHB578 IMAGE INTERPRETATION I

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

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

A course of lectures on the principles, strengths and stage of development of techniques which are complementary to radiotherapy treatment of cancer. Including: hyperbaric O₂ therapy, neutron therapy,

pi-meson therapy, chemotherapy, cryotherapy and hyperthermia.

Credit Points: 6 **Contact Hours:** 3 per week

■ PHB584 PRINCIPLES OF TREATMENT II

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

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

A course of lectures and practical exercises on the specialised techniques of orthovoltage and superficial radiotherapy.

Prerequisites: PHB489, PHB487

Credit Points: 10 **Contact Hours:** 4 per week

■ PHB589 CLINICAL RADIOTHERAPY IV

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

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

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

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

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

A course dealing with the biophysics of selected biological systems (eg. electrical transmission systems, amplifiers, mechanical systems, molecular behaviours in fields) and instrumentation for inter-cellular 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

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

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

A study of the biological effects on ionising and non-ionising radiation.

Credit Points: 4 **Contact Hours:** 2 per week

■ PHB672 PROJECT

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

An extension of topics 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

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

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

■ PHB681 COMPUTED TOMOGRAPHY IMAGING

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

A study of the principles and techniques of medical imaging used in the detection of cancer including CT, MRI, U/S and NM.

Credit Points: 6 **Contact Hours:** 3 per week

■ PHB685 COMPUTER ASSISTED TREATMENT PLANNING II

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.

Credit Points: 8 **Contact Hours:** 4 per week

■ PHB687 SPECIALISED RADIOTHERAPY TECHNIQUE

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 week

■ PHB689 CLINICAL RADIOTHERAPY V

Clinical experience in specialised radiotherapy treatment techniques.

Prerequisite: PHB589 **Co-requisite:** PHB687

Credit Points: 8 **Contact Hours:** 4 per week

■ PHD351 PHYSICS FOR NURSES

The physical processes associated with normal and abnormal physiological functions, diagnostic and therapeutic procedures and practices; including: measurement as a science; forces and motion; energy production and transfer; thermal, mechanical and electrical behaviour of matter; introductory atomic and nuclear physics.

Credit Points: 3 **Contact Hours:** 2

■ PHN101 ANALOGUE ELECTRONICS

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

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

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

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

■ PHN152 CROSS-SECTIONAL ANATOMY

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

The physical principles of diagnostic ultrasound including: wave physics; propagation; the Doppler effect; the biological effects of ultrasound; medical ultrasound equipment, including aspects related to transducers control; display; image performance and artifacts.

Credit Points: 6 **Contact Hours:** 2 per week

■ PHN154 PRINCIPLES OF ULTRASOUND IMAGING

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: PHN153

Credit Points: 6 **Contact Hours:** 2 per week

■ PHN155 ULTRASONIC EXAMINATION IN OBSTETRICS & GYNAECOLOGY

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

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 alteration by pathological processes.

Co-requisite: PHN154

Credit Points: 6 **Contact Hours:** 2 per week

■ PHN157 CLINICAL ULTRASOUND I

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

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

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

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

A period of additional clinical experience designed to refine basic skills acquired in PHN157.

Prerequisite: PHN157

Credit Points: 12

■ PHN301 MICROPROCESSORS

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 micro-computer function and applications.

Credit Points: 8 **Contact Hours:** 3 per week

■ PHN302 INSTRUMENTATION

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

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

■ PHN351 ULTRASOUND EQUIPMENT II

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

The techniques of ultrasound imaging used in investigating the cardiovascular system; including techniques for demonstration of cardiac structures, cerebrovascular and peripheral vascular systems and peripheral venous systems.

Credit Points: 6 **Contact Hours:** 2 per week

■ PHN353 ULTRASOUND IN MEDICAL DIAGNOSIS

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 ORGANS

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

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 **Contact Hours:** 2 per week

■ PHN402 RADIOTHERAPY

Considers the principles and techniques of clinical application of ionising radiation for diagnostic and therapeutic purposes. Emphasis is on radiotherapy physics and diathermy therapy.

Credit Points: 6 **Contact Hours:** 2 per week

■ PHN405 PHYSIOLOGICAL MEASUREMENT

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

Completion of assignments in applied practical procedures including reports written to journal publication standards.

Credit Points: 6

■ PHN520 PROJECT

■ PHN540 PROJECT

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: 48 and 24 per semester respectively

Contact Hours: 18 and 9 per week respectively

■ PHP250 OCCUPATIONAL HYGIENE

A course of lectures, practical work and industrial visits to instruct students so that they will be able to recognise, evaluate and control the physical, biological and chemical environmental factors which may adversely affect the health, safety, comfort and efficiency of workers.

Credit Points: 12 **Contact Hours:** 3 per week

■ PNA170 ANATOMY & PHYSIOLOGY I

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

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.

Prerequisites: PNA170 Co-requisite: MSA124

Credit Points: 8 **Contact Hours:** 3 per week

■ PNA550 CARDIAC PHYSIOLOGY & ANATOMY

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: PNA170, PNA171, MSA121

Co-requisite: PHA561, PHA562

Credit Points: 5 **Contact Hours:** 2 per week

■ PNA650 RESPIRATORY PHYSIOLOGY & ANATOMY

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: PNA170, PNA171, PNA121

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 In-

strumentation 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

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

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 humans and forms a firm basis for an understanding of abnormal function to be presented in PNB116.

Credit Points: 12 **Contact Hours:** 3 per week

■ PNB116 HUMAN PHYSIOLOGY II

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

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

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: 6 **Contact Hours:** 3 per week

■ PNB132 ANATOMY II

An extension of PNB131. A course dealing with the microscopic 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

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

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 or CHB242

Credit Points: 8 **Contact Hours:** 4 per week

Note: This subject is not compatible with PNB231; credit may not be retained for both.

■ PNB203 ENVIRONMENTAL HEALTH III

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

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

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

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

■ PNB207 INTRODUCTION TO ENVIRONMENTAL HEALTH

A brief history of environmental health in Queensland; the current role of environmental health officers within the public health agencies at all levels of government and the principal public health legislation in this State; the complexity of environmental systems; the effects of pollutants on such systems.

Credit Points: 10 **Contact Hours:** 4 per week

■ PNB210 OCCUPATIONAL HEALTH & SAFETY I

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

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

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

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

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

The broad objectives outlined in PNB231 are continued. Emphasis in this subject is focused on structure-function relationships at the level of organs and systems. The cardiovascular, lymphatic, respiratory, digestive, urinogenital, 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

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

■ PNB262 ANATOMY & PHYSIOLOGY II

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

■ PNB300 POLLUTION SCIENCE I

The causes, effects, control measures, standards and legislation relating to air pollution and noise.

Prerequisites: CHB242, PHB250

Credit Points: 8 **Contact Hours:** 4 per week

■ PNB301 ADVANCED ANATOMY

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 week

■ PNB302 PODIATRIC MEDICINE I

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 eg, 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

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

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

This subject builds on student's foundations in physiology and biochemistry to gain an appreciation of the meaning of nutrition, of methods used in its study and of food as a source of nutrients; the nature and function of the different nutrients; primary nutritional diseases.

Co-requisite: MSB415 and PNB165 or PNB231

Credit Points: 6 **Contact Hours:** 3 per week

■ PNB306 PHARMACOLOGY

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

■ PNB318 FOOD STUDIES I

The chemical and physical properties of food; food processing theory; food preservation techniques; codes of practice and food standards legislation.

Prerequisite: PNB207 **Co-requisite:** MSB301

Credit Points: 6 **Contact Hours:** 3 per week

■ PNB325 REGIONAL & SECTIONAL ANATOMY

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

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 Points: 10 **Contact Hours:** 5 per week

■ PNB405 HUMAN NUTRITION II

An extension of PNB305. The role of nutrients in the maintenance of life; growth and the normal function of the human body; the social influences on food selection; nutritional impact of technology; nutrition guidelines for groups within the community.

Credit Points: 6 **Contact Hours:** 3 per week

■ PNB406 ADVANCED ORTHOSES

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 eg, 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 eg, 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

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, eg, 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

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 ie, 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

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

■ PNB418 FOOD STUDIES II

Food hygiene, construction and operation of food establishments, legislation and standards relating to good hygiene and training programs.

Prerequisites: PNB207, PNB318

Credit Points: 6 **Contact Hours:** 3 per week

■ PNB420 ORTHOTIC SCIENCE I

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 ie, 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

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

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

A study of the appearances, on medical images, of normal and abnormal anatomy.

Credit Points: 8 **Contact Hours:** 4 per week

■ PNB435 HUMAN PHYSIOLOGY

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: PNB363 **Co-requisite:** MSB430

Credit Points: 12 **Contact Hours:** 7 per week

■ PNB465 PHYSIOLOGY III

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 Course Coordinator.

■ PNB481 POLLUTION SCIENCE II

The causes, effects, control measures, standards and legislation relating to water pollution and solid and hazardous wastes.

Prerequisites: CHB242, PHB250

Credit Points: 8 **Contact Hours:** 4 per week

■ PNB482 OCCUPATIONAL HEALTH

The basic concepts of toxicology and the body's responses to toxic substances; the basic disease processes in humans and the various agents in the workplace capable of adversely affecting the health of workers.

Prerequisites: PNB211, PNB231

Co-requisites: PNB232, MSB402

Credit Points: 10 **Contact Hours:** 4 per week

■ PNB483 HUMAN FACTORS I

The normal structure and function of relevant systems within the human body and the ways in which the work environment can impinge on normal function; develops an appreciation of the multiple interfaces between humans, machines and the environment; the principles of manual handling and the effects of such

physical factors as lighting, temperature and humidity on human performance.

Prerequisites: PNB231, MEB035

Co-requisites: PNB232, PHN404

Credit Points: 6 **Contact Hours:** 3 per week

■ PNB485 OCCUPATIONAL HYGIENE I

Application of the practical skills students have already obtained from Chemistry I, II and III in analytical chemistry to the field of occupational hygiene. The uses and limitations of a range of sampling and analytical equipment in the measurement and assessment of workplace contaminants.

Prerequisites: CHB382, PHB250

Credit Points: 10 **Contact Hours:** 4 per week

■ PNB502 DERMATOLOGY

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, vasculitis, 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

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 podiatrist role 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

On completion of this subject the student should be able to consolidate 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 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

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

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 therapy. The subject will also provide an understanding of the main techniques employed in dispensing orthotics made from a positive cast ie, 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 ie, children, adolescent, adult and special requirements of selected cases eg, in-toe, out-toe, sprinters, marathoners, arthritic, post operative and obese patient.

Prerequisite: PNB420 **Co-requisite:** PNB421

Credit Points: 8 **Contact Hours:** 3 per week

■ PNB511 HAZARD ASSESSMENT AND MANAGEMENT I

The history of accident causation theory; techniques for accident investigation; recording, analysing and reporting accident information; principles of hazardous chemicals management.

Prerequisites: PNB210, PNB211, MAB252

Credit Points: 8 **Contact Hours:** 3 per week

■ PNB512 HUMAN FACTORS II

The application of psychology to the industrial environment; an examination of the key individual, social and organisational factors contributing to health and safety at work; the causes of stress, information processing and learning, performance abilities and work schedules.

Prerequisites: MNB067, PNB483, CMB106

Credit Points: 4 **Contact Hours:** 2 per week

■ PNB513 EPIDEMIOLOGY

The broad uses of research and evaluative techniques in the context of health and safety; areas of study include sampling, data collection and data analysis.

Prerequisites: CSB259, MAB252, PNB231, PNB232

Credit Points: 6 **Contact Hours:** 3 per week

■ PNB514 PRINCIPLES OF TOXICOLOGY

The basic principles of dose effect and dose response relationships; toxicity testing and the toxic effects of a range of environmental contaminants; environmental and industrial standards.

Prerequisites: PNB307, PNB481, PNB232

Credit Points: 6 **Contact Hours:** 3 per week

■ PNB516 PROFESSIONAL PRACTICE I

Investigation of management principles and practices as they may be applied to resolve occupational health and safety problems; an examination of industrial relations processes and the legal framework within which occupational health and safety is addressed; field studies are used to provide students with a practical insight into the application of the principles to which they have been introduced.

Prerequisites: MEB035, PHB404

Credit Points: 12 **Contact Hours:** 6 per week

■ PNB517 PROJECT I

Researching occupational health and safety problems; the analysis and definition of a problem and design of a suitable research program to address it; a literature review; written report outlining the project. The project will involve independent work under the guidance of experienced supervisors.

Prerequisites: PHB404, MAB252

Co-requisites: PNB513, PNB585, PNB512

Credit Points: 4 **Contact Hours:** 2 per week

■ PNB518 FOOD STUDIES III

The various types of food poisoning; food poisoning investigation techniques; laboratory procedures and interpretation of results.

Prerequisites: PNB207, PNB318, PNB418, MSB402

Credit Points: 6 **Contact Hours:** 3 per week

■ PNB520 ENVIRONMENTAL HEALTH MANAGEMENT I

The management of an environmental health unit; the various legal procedures associated with the duties of environmental health officers.

Prerequisites: PNB207, PNB481

Credit Points: 12 **Contact Hours:** 5 per week

■ PNB585 OCCUPATIONAL HYGIENE II

Continuation of Occupational Hygiene I; concentrates on the application of the principles to which the student has already been introduced. The subject will extend students' ability to recognise, evaluate and suggest the most efficient control strategies for physical and chemical hazards in the working environment. It will include an analysis of the principles and design of ventilation systems. The subject will examine the elements of successful monitoring programs in the workplace.

Prerequisites: PNB482, MSB402, MAB252, PNB485

Credit Points: 10 **Contact Hours:** 4 per week

■ PNB602 SPORTS MEDICINE

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 symptomatology 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

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:** 9 per week

■ PNB610 PROJECT & PROFESSIONAL MANAGEMENT

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

■ PNB611 HAZARD ASSESSMENT & MANAGEMENT II

Continuation of Hazard Assessment and Management I; examination of the systems available to quantita-

tively assess process safety; an analysis of the essential components of a claims management and rehabilitation program; the financial systems used in various organisations and the techniques of risk management.

Prerequisite: MEB035, PNB484

Credit Points: 8 **Contact Hours:** 3 per week

■ PNB612 HEALTH PROMOTION & EDUCATION

The scope and nature of health promotion; use of resources for such activities; planning, conduct and evaluation of health promotion programs.

Prerequisites: MNB067, CMB106

Credit Points: 6 **Contact Hours:** 3 per week

■ PNB613 PROFESSIONAL PRACTICE II

Enables students to apply theoretical knowledge; uses field studies and exercises to further extend students' competence in the practical application of the various principles of occupational health and safety in the workplace. It also examines the current issues in the field of occupational health and safety and aims to equip students to play a role in debates around these issues.

Prerequisite: PNB516

Credit Points: 12 **Contact Hours:** 6 per week

■ PNB614 INDUSTRY SPECIALISATIONS

The hazards associated with particular industries including construction, manufacturing, chemical and mining through field trips and specialist lectures; the various laws and standards that apply to these industries and an investigation of the control strategies applicable to the management of hazards in the industries.

Prerequisites: PNB511, PNB482, MEB035, PHB404

Credit Points: 12 **Contact Hours:** 6 per week

■ PNB617 PROJECT II

Continuation of the project commenced in the subject Project I. It includes the analysis of the material relevant to the problem selected by the student and the presentation of verbal and written reports outlining the findings of the investigation.

Prerequisite: PNB517

Credit Points: 10 **Contact Hours:** 4 per week

■ PNB620 ENVIRONMENTAL HEALTH MANAGEMENT II

Integration of the students' theoretical understanding of physical and biological sciences and application of such understanding to the management of a range of environmental health problems encountered in the professional practice of an environmental health officer.

Prerequisites: PNB520, PNB481

Co-requisite: PNB481

Credit Points: 12 **Contact Hours:** 6 per week

■ PNB621 PROFESSIONAL PRACTICE

Visits to all types of establishments in Environmental Health Management, Pollution Sciences and Food Studies subjects for the purpose of practical demonstration, evaluation and professional experience.

Prerequisites: PNB481, PNB520

Co-requisite: PNB620

Credit Points: 12 **Contact Hours:** 6 per week

■ PNB622 PROJECT

Through independent work under the guidance of supervisors, students learn to appreciate the connection

between their theoretical studies and practical aspects of environmental health. Practice is gained in research techniques, logical reasoning and presentation of research findings.

Prerequisite: PNB520

Credit Points: 8 **Contact Hours:** 4 per week

■ PNB665 CLINICAL PHYSIOLOGY

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 chemical carcinogenesis, nutrition in cancer patients, and the metabolic response to stress.

Prerequisite: PNB465

Credit Points: 10 **Contact Hours:** 4 per week

■ PNB667 ADVANCED NUTRITIONAL PHYSIOLOGY

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.

Prerequisites: PNB405, PNB465

Credit Points: 10 **Contact Hours:** 4 per week

■ PND131 ANATOMY

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

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

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

■ PND421 FOOD & NUTRITION

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

Credit Points: 6 **Contact Hours:** 3 per week

■ PND430 PHYSIOLOGY

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

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.

Prerequisite: PND132

Co-requisites: PND420, PHD441

Credit Points: 20 **Contact Hours:** 10 per week

■ PND432 PODIATRY IV

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

■ PND461 SPECIAL PROCEDURES CLINIC

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

■ PND470 HUMAN GENETICS & DEVELOPMENT

Genetic principles and their applications in the field and in medicine; normal and abnormal human development.

Prerequisites: BED150, PND120

Credit Points: 2 **Contact Hours:** 1 per week

■ PND540 CLINICAL PHYSIOLOGY II

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

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

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

■ PND731 PODIATRY V

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.

Prerequisite: PND432 **Co-requisite:** PND750

Credit Points: 26 **Contact Hours:** 13 per week

■ PND732 PODIATRY VI

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.

Prerequisite: PND731 **Co-requisite:** PND761

Credit Points: 26 **Contact Hours:** 13 per week

■ PND742 ORTHOTICS VI

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.

Prerequisite: PND442 **Co-requisite:** PND732

Credit Points: 6 **Contact Hours:** 3 per week

■ PND752 CLINICAL BIOMECHANICS

In this subject students are taught the biomechanical principles of foot function as used in the clinical situation.

Prerequisite: PHD460 **Co-requisite:** PND731

Credit Points: 6 **Contact Hours:** 3 per week

■ PND761 SPORTS MEDICINE

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.

Prerequisite: PND750 **Co-requisite:** PND732

Credit Points: 6 **Contact Hours:** 3 per week

■ PND770 PROJECT

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

Currently, there is heightened awareness about the nature of industrialised human activity and its impact upon natural resources and human health. Nurses have 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

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

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

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 week

■ PNP104 APPLIED NUTRITION I

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

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

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

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.

Prerequisite: PNP111

Co-requisites: PNP120, PNP108

Credit Points: 6 **Contact Hours:** 3 per week

■ PNP115 OCCUPATIONAL HEALTH & SAFETY ADMINISTRATION I

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

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

An extensive study of the application of dietary 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

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

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

These subjects offer an introduction to clinical dietetics. They involve one week each principally in the hospital setting. They 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

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

Introduction to institutional food service administration; the organisation of food service; production; distribution and service of food menu planning; hygiene; maintenance; financial control; human resource management; computer assistance and quality assurance. Field trips are included.

Co-requisite: PNP112

Credit Points: 7 **Contact Hours:** 5 per week

■ PNP142 MEDICINE

Aetiology of disease. Brief description of treatment other than dietary of hypertension, cardiovascular, renal, gastrointestinal 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 pharmacology and proprietary names of drugs.

Credit Points: 4 **Contact Hours:** 1.5 per week

■ PNP143 FOUNDATION OF NUTRITION

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 gastrointestinal 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

The aims of these subjects are to introduce and practise 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

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

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

This major project gives students an opportunity to research a particular 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

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:** 1 per week

■ SVB101 SURVEYING & MEASURING

Basic concepts, applications of surveying, relationship with architecture and building; instrumentation; setting out of procedures, plotting of survey data, computations, cadastral system, land tenure systems; Titles Office procedures, searching, identification,

types of surveys, easements, encroachments, interpretation of survey plans.

Credit Points: 4 **Contact Hours:** 2 per week

■ SVB103 MAPPING & SURVEYING FOR FIELD SCIENTISTS

Introduction to maps, projections, grid, graticules, coordinates, scale and uses; principles of map making, position fixing, heighting; drafting; simple field instrumentation, aerial photography, remote session.

Credit Points: 8 **Contact Hours:** 3 per week

■ SVB111 DATA PRESENTATION I

Drafting instruments and techniques; introductory survey drafting; introductory engineering drawing.

Co-requisite: SVB121

Credit Points: 6 **Contact Hours:** 3 per week

■ SVB121 LAND SURVEYING I

Principles of surveying; surveying instrumentation; traversing; levelling; elements of tachometry; contouring; elementary theory of error; plane surveying computations.

Credit Points: 13 **Contact Hours:** 6 per week

■ SVB199 INDUSTRIAL EXPERIENCE I

At least six weeks' employment, approved by Head of Department. Students must submit an industrial experience record form, completed by both student and employer.

Contact Hours: 6 per week

■ SVB203 PROJECT SURVEY

Two surveys of a building site; survey done by theodolite traverse.

Prerequisite: SVB101

Credit Points: 4 **Contact Hours:** 2 per week

■ SVB211 DATA PRESENTATION II

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

Develops drafting skills; introduces engineering survey drafting and computer graphics.

Prerequisite: SVB111 **Co-requisite:** SVB226

Credit Points: 2 **Contact Hours:** 1 per week

■ SVB226 LAND SURVEYING II

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

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

Preparation of technical papers and reports; written and oral presentation; business correspondence; meeting procedures.

Credit Points: 5 **Contact Hours:** 2 per week

■ SVB299 INDUSTRIAL EXPERIENCE II

At least six weeks' employment, approved by Head of Department. Students must submit an industrial

experience record form, completed by both student and employer.

Contact Hours: 6 per week

■ SVB306 SURVEYING I

Introductory surveying methods; 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

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

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

Introduction to photogrammetry; photogrammetric optics; aerial photography; geometry and use of single photographs; geometry and use of the stereogram; 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

Introductory ecology; 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.

Credit Points: 6 per semester

Contact Hours: 6 per week

■ SVB393 LAND SURVEYING III

Cadastral surveying; field astronomy; off-campus field work.

Prerequisites: SVB121, SVB270

Co-requisites: SVB311, SVB573

Credit Points: 10 **Contact Hours:** 5 per week

■ SVB399 INDUSTRIAL EXPERIENCE III

At least six weeks' employment, approved by Head of Department. Students must submit an industrial experience record form, completed by both student and employer.

Contact Hours: 6 per week

■ SVB412 CARTOGRAPHIC PRACTICE

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

Primary traversing; classical triangulation; trigonometrical levelling, precise levelling; off-campus field work.

Prerequisite: SVB121

Co-requisites: SVB431, SVB442

Credit Points: 9 **Contact Hours:** 4 per week

■ SVB431 OBSERVATIONS & ADJUSTMENTS II

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

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

■ SVB443 PHOTOGRAMMETRY II

Principles of construction; operation of analogue stereoplotters; aerial triangulation; terrestrial photogrammetry; analytical photogrammetry; one half-day visit to an aerial survey/mapping organisation.

Prerequisites: SVB343, MAB795

Co-requisites: SVB431

Credit Points: 11 **Contact Hours:** 6 per week

■ SVB451 LAND STUDIES B

An introduction to the theory of price; location theory; land economics.

Credit Points: 5 **Contact Hours:** 3 per week

■ SVB470 LAND ADMINISTRATION II

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

Need for a computerised land information system 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

Hydrographic surveying; topographic surveying.

Prerequisites: MAB495, SVB121

Co-requisite: SVB430

Credit Points: 5 **Contact Hours:** 3 per week

■ SVB551 LAND VALUATION

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

Land development as an economic activity; surveys for subdivision design; site planning; land use deter-

minants; political, economic, social and physical; traffic aspects affecting subdivision design; case studies.

Prerequisites: SVB351, SVB451

Co-requisites: CEB364, SVB551, SVB574

Credit Points: 10 **Contact Hours:** 6 per week

■ SVB563 LAND INFORMATION SYSTEMS II

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

Complex and modern problems involved in the cadastre.

Prerequisite: SVB393

Credit Points: 4 **Contact Hours:** 2 per week

■ SVB573 LAND ADMINISTRATION III

Queensland case law; 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

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

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

Geophysical surveying; mine surveying; field astronomical observation.

Prerequisites: PHB170, SVB430

Credit Points: 6 **Contact Hours:** 3 per week

■ SVB639 OBSERVATIONS & ADJUSTMENTS III

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

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.

Prerequisites: MEB221, PHB170, SVB430, SVB442

Co-requisite: SVB639

Credit Points: 6 **Contact Hours:** 3 per week

■ SVB643 PHOTOGRAMMETRY III

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

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

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; 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

Organisation theory; development planning procedures; land development analysis.

Prerequisites: SVB470, SVB451

Credit Points: 5 **Contact Hours:** 3 per week

■ SVB680 PROFESSIONAL PRACTICE

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

Preparation and presentation of 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

Undertake and report on an approved project in the field of surveying. Field trips on site or to local firms may be required.

Prerequisite: Successful completion of subjects totalling not less than 85 hours of weeks contact time

Credit Points: 4 per semester

Contact Hours: 2 per week

■ SVB684 MAP PRODUCTION PLANNING

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

■ SVB685 PROJECT (CARTOGRAPHY)

Undertake a substantial mapping project utilising knowledge gained in photogrammetric, traditional

and computer-assisted methods. The project may be topographic or thematic.

Prerequisites: SVB311, SVB412

Co-requisite: SVB443

Credit Points: 8 per semester

Contact Hours: 4 per week

■ SVB688 PROFESSIONAL PRACTICE A

Preparing 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

Review of matrices, the Jacobian matrix, orthogonal matrices, transformations, coordinate transformations, rotations in three dimensions, euler angles, datum transformations, the development of datums.

Prerequisite: SVB640

Credit Points: 5 **Contact Hours:** 3 per week

■ SVP111 CADASTRAL SURVEYING I

The practice of cadastral surveying including subdivision design. Students may be required to spend four weeks at a field study centre and be required to carry out off-campus field work.

Credit Points: 26 **Contact Hours:** 356 total

■ SVP112 SURVEY COMPUTING

Computer applications in the practice of surveying.

Credit Points: 3 **Contact Hours:** 47 total

■ SVP113 OFFICE OPERATIONS

Written and oral communications; interviewing; office management, industrial relations.

Credit Points: 7 **Contact Hours:** 90 total

■ SVP114 PRACTICE LAW

The significance of court decisions on professional indemnity claims; statutes and regulations affecting surveyors. Preparation of brief and appearance in practice court sessions in conjunction with the Legal Practice Course.

Credit Points: 2 **Contact Hours:** 30 total

■ SVP115 PROFESSIONAL PRACTICE

The professional organisations in surveying; the conventions of surveying practice; professional relationships and the responsibilities of professional practice.

Credit Points: 1 **Contact Hours:** 8 total

■ SVP116 SURVEY PROJECT

The recording and planning of survey projects and assessing progress.

Credit Points: 7 **Contact Hours:** 100 total

■ SVP211 CADASTRAL SURVEYING II

The practice of cadastral surveying, including mining and real property surveys. Students may be required to spend four weeks at a field study centre and be required to carry out off-campus field work.

Credit Points: 18 **Contact Hours:** 247 total

■ SVP212 BUILDING CONTROL SURVEY

Lectures, tutorials and practical exercises covering horizontal and vertical building control surveys; interpretation of plans and client relationships. Students may be required to spend some time on off-campus field work and inspections.

Credit Points: 3 **Contact Hours:** 38 total

■ SVP213 DETAIL SURVEYS

Surveys for location and presentation of natural and man-made detail. Students may be required to spend some time at a field study centre and be required to carry out off-campus field work.

Credit Points: 2 **Contact Hours:** 30 total

■ SVP214 MAPPING

Mapping techniques and their relative cost.

Credit Points: 6 **Contact Hours:** 76 total

■ SVP215 INNOVATIONS & SYSTEMS DEVELOPMENT

Assessment of new techniques and equipment, and the development of an innovative approach to the practice of surveying.

Credit Points: 2 **Contact Hours:** 22 total

■ SVP216 SURVEYS FOR GOVERNMENT

Decision making in government organisations; survey services provided by or to local authorities and government departments; surveying contracts. Students may be required to carry out inspections of several government agencies.

Credit Points: 3 **Contact Hours:** 38 total

■ SVP217 ENGINEERING SURVEYING

Engineering surveys for a variety of development projects. Students may be required to spend two weeks at a field study centre and be required to carry out off-campus field work.

Credit Points: 16 **Contact Hours:** 210 total

■ SVT113 INTRODUCTORY CARTOGRAPHY

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

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

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 Lands Department and plotting of plans for registration.

Prerequisite: SVT113

Credit Points: 8 **Contact Hours:** 3 per week

■ SVT225 SURVEYING

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

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; one evening visit to an aerial surveying organisation.

Credit Points: 8 **Contact Hours:** 3 per week

■ SVT306 ENGINEERING SURVEYING I

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

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

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

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; one evening visit to a mapping organisation.

Prerequisite: SVT243

Co-requisite: SVT115

Credit Points: 8 **Contact Hours:** 3 per week

■ SVT426 LAND STUDIES II

Introduction to the cultural aspects of land use.

Prerequisite: SVT316

Credit Points: 8 **Contact Hours:** 3 per week

■ SVT443 PHOTOGRAMMETRY III

The operation of stereoplotting instruments; aerial triangulation; compilation of maps.

Prerequisite: SVT343

Credit Points: 8 **Contact Hours:** 3 per week

■ SVT471 LAND LAWS & REGULATIONS

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

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

Advanced three-dimensional mapping; analytical plotting systems including digital and graphical mapping, digital evaluation models and unconventional mapping applications; subject will be project oriented.

Prerequisites: SVT443, SVT315

Credit Points: 8 **Contact Hours:** 3 per week

■ SVT623 PROJECT MAPPING

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

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

Introduction to special trigonometry and its application to map projections; tangential, cylindrical, conical and conventional projections using a sphere as reference surface.

Prerequisite: SVT115

Credit Points: 8 **Contact Hours:** 3 per week

■ SVT715 CARTOGRAPHY I

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

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

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

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

Standard mapping, economics of standard mapping, standard sheet sizes, map specifications, map accuracy; 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

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 data.

Prerequisites: SVT991, SVT315

Credit Points: 8 **Contact Hours:** 3 per week

■ SVT945 REMOTE SENSING

Introduction to remote sensing; data and information; review of electromagnetic 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**

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**

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

ALPHABETICAL LIST OF SUBJECTS

Gardens Point campus

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	LWN003	Advanced Family Law
ACB180	Accounting for Managers	MSP120	Advanced Genetic Engineering
ACB110	Accounting I	LPP212	Advanced Graphics
ACB115	Accounting II	CSN350	Advanced Graphics I
ACB181	Accounting Inform Systems I	CSN360	Advanced Graphics II
ACN813	Accounting Principles	MNN612	Advanced Health Evaluation
ACB482	Accounting Principles C	MNN611	Advanced Health Planning
ACP111	Accounting Principles I	EEB890	Advanced Inform Tech Topics
ACN183	Accounting Principles(Mgmt III)	ISB301	Advanced Information Systems
ACN114	Accounting Research	ISP381	Advanced Information Systems
ACB410	Accounting Research	CHB631	Advanced Inorganic Chemistry
ACB310	Accounting Theory & Practice	CET735	Advanced Laboratory Testing I
MAB641	Actuarial Mathematics	CET838	Advanced Laboratory Testing II
MAB741	Actuarial Mathematics	LPP213	Advanced Landscape Construction
MNB483	Administration Analysis	LPP209	Advanced Landscape Ecology
MNB026	Administration for Geologists	LWN004	Advanced Law of Trusts
MNB382	Administration Research I	MNN813	Advanced Marketing Management
LWB311	Administrative Law	MEB531	Advanced Materials
MNA012	Administrative Practice	CHB690	Advanced Materials Science
MNB385	Administrative Theory	CHP704	Advanced Materials Science B
ARP676	Adv CAD for Industrial Designers I	MEB680	Advanced Mechanical Design
ARP677	Adv CAD for Industrial Designers II	ASP705	Advanced Microscopy Techniques
CMN821	Adv Organisational Communication	NSN307	Advanced Nursing Clinical I
CMB543	Advanced Advertising	NSN308	Advanced Nursing Clinical II
CHB610	Advanced Analysis	NSN309	Advanced Nursing Clinical III
CHP703	Advanced Analysis	NSN301	Advanced Nursing Education I
PNB301	Advanced Anatomy	NSN302	Advanced Nursing Education II
ACN152	Advanced Capital Budgeting	NSN303	Advanced Nursing Education III
CHP706	Advanced Chemical Technology	NSN304	Advanced Nursing Management I
ISB219	Advanced COBOL	NSN305	Advanced Nursing Management II
CMP500	Advanced Communication Seminar	PNB667	Advanced Nutritional Physiology
ACN112	Advanced Company Accounting	MNB462	Advanced Organisation Behaviour
LWN001	Advanced Company Law	ISP451	Advanced Organisation of Knowledge
CSB311	Advanced Computer Architectures	PNB406	Advanced Orthoses
EET891	Advanced Computing Techniques	CHN730	Advanced Physical Methods in Chem
LWN002	Advanced Constitutional Law	BEP721	Advanced Plant Physiology & Biochem
CEB503	Advanced Construction Methods	CMB307	Advanced Professional Writing
CET857	Advanced Construction Techniques	ISP400	Advanced Programming
EEB621	Advanced Control Systems	CMB651	Advanced Public Relations
INN310	Advanced Data Communications	PHB570	Advanced Radiographic Practice I
ISB203	Advanced Database	PHB670	Advanced Radiographic Practice II
ISP301	Advanced Database	PHB576	Advanced Radiographic Technique I
MNB571	Advanced Economic Theory & Policy	PHB676	Advanced Radiographic Technique II
EEP125	Advanced Eng Software Tools	ESP705	Advanced Resource Geology
ESP706	Advanced Engineering Geology	ESP704	Advanced Sedimentary & Environ Geol
ARP613	Advanced Ergonomics I	CHB641	Advanced Spectroscopy
ARP623	Advanced Ergonomics II	CHP705	Advanced Spectroscopy
BEP200	Advanced Experimental Methods II	CEB551	Advanced Structural Design
BEP100	Advanced Experimental Studies I	BEP704	Advanced Studies in Population Mgmt

ACN171	Advanced Taxation	EET678	Applied Electronics
ARB497	Advanced Technology	ESB520	Applied Geochemistry
CMP562	Advanced Text Analysis	ESB453	Applied Geomorphology
CHP701	Advanced Topics in Chemistry I	ESB537	Applied Geophysics
CHP702	Advanced Topics in Chemistry II	MNB430	Applied Health Care Analysis
PHN703	Advanced Topics in Medical Physics	BTB209	Applied Land Science for Designers
PHN702	Advanced Topics in Physics	MAB610	Applied Linear Algebra
CEP215	Advanced Traffic Engineering	BTB110	Applied Mathematics for Designers I
MNB420	Advanced Training Techniques	BTB210	Applied Maths for Designers II
CEP276	Advanced Treatment Processes	MET201	Applied Mechanics
LPP413	Advanced Urban Structure	MET210	Applied Mechanics I
BGP422	Advanced Valuations	MET310	Applied Mechanics II
MSN401	Advances in Medical Lab Science	CHN750	Applied Methods in X-ray Diffraction
CMB641	Advertising Campaigns	MSB611	Applied Microbiology
CMB364	Advertising Copywriting - Electronic	LPP559	Applied Natural Science
CMB363	Advertising Copywriting - Print	PNP104	Applied Nutrition I
CMB542	Advertising Management	PNP108	Applied Nutrition II
CMP404	Advertising Seminar	PHB501	Applied Quantum Mechanics
MEB450	Air Conditioning	PHB609	Applied Radiation Physics
MET352	Air Conditioning & Refrigeration	MNN820	Applied Research & Design
EEP101	Algorithms for Control & Signal Proc	BTN901	Applied Research Methods
EEB561	Analogue Communications	MNN404	Applied Research Project
PHN101	Analogue Electronics	LPN114	Applied Research Techniques
MNB153	Analysis & Methodology in Mgmt	ASB991	Applied Science Elective I
MSB621	Analytical Biochemistry	ASB992	Applied Science Elective II
CHB110	Analytical Chemistry I	ASB993	Applied Science Elective III
CHA218	Analytical Chemistry I	ASB994	Applied Science Elective IV
CHA319	Analytical Chemistry II	ASB995	Applied Science Elective V
CHB210	Analytical Chemistry II	ASB996	Applied Science Elective VI
CHB310	Analytical Chemistry III	PHB144	Applied Science for Designers I
CHN510	Analytical Chemistry V	BTB204	Applied Science for Designers II
MSP104	Analytical Electron Microscopy	MAB924	Applied Statistical Techniques
PND131	Anatomy	ARB791	Approved Employment I
PNB231	Anatomy & Physiology I	ARB792	Approved Employment II
PNA170	Anatomy & Physiology I	ARB793	Approved Employment III
PNB125	Anatomy & Physiology I	ARB794	Approved Employment IV
PNN161	Anatomy & Physiology I	BEB388	Aquaculture I
PNB261	Anatomy & Physiology I	BEB588	Aquaculture II
PNB232	Anatomy & Physiology II	BEA016	Aquaculture Techniques
PNA171	Anatomy & Physiology II	BTB451	Architectural Interior Systems I
PNB225	Anatomy & Physiology II	BTB551	Architectural Interior Systems II
PNN165	Anatomy & Physiology II	CSN220	Artificial Intelligence
PNB262	Anatomy & Physiology II	CSB324	Artificial Intelligence
PNB131	Anatomy I	PHB411	Astronomy
PNB132	Anatomy II	ACN122	Audit Sampling
BEA398	Animal & Plant Techniques	ACB311	Auditing
BEB411	Animal Physiology	ACB312	Auditing & Professional Practice
BEA011	Animal Physiology	ACB413	Auditing Honours
ISB101	Application Systems	ACN124	Auditing Honours
BEA499	Applications in Electron Microscopy	ACN125	Auditing Standards & Practice
PHB608	Applied Acoustics	CMB291	Aust Literature & Film
MNB413	Applied Cognitive Psychology	MNB183	Aust National Government A
BGB642	Applied Computer Techniques	MNB181	Aust National Government B
BGB667	Applied Computer Techniques	ACB231	Australian Capital Markets
BEP102	Applied Data Analysis I	CMN825	Australian Communication Contexts
BEP202	Applied Data Analysis II	MNB330	Australian Health Industry
MNB572	Applied Econometrics	CMB423	Australian Media Institutions
EEB971	Applied Electronics	MNP508	Australian Policy Studies

CMB212 Australian Studies
ISN210 Automated Systems Management
MEB640 Automation I
MEB710 Automation II

B

LWN021 Banking & Finance Law I
LWN022 Banking & Finance Law II
MAB499 Basic Statistics for Surveyors
MNB007 Behavioural Science
CHP120 Biochemical Engineering
MSB310 Biochemical Methodology III
MSB410 Biochemical Methodology IV
MSB521 Biochemical Separations
MSB415 Biochemistry III
MSB473 Biochemistry III
MSB416 Biochemistry IV
MSB471 Biochemistry IV
MSB474 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
BGB341 Building & Civil Eng Construction
CEB430 Building Construction
ARB295 Building Construction I
BTB310 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
SVP212 Building Control Surveys
ARP524 Building Economics
ARP600 Building Evaluation & Brief Devt
ACB281 Building Financial Management I
BGB406 Building Financial Management II
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
BTB617 Building Services II
ARB392 Building Services II
BGB014 Building Services II - Electrical
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
ISN220 Business Computer Intelligence
ISB493 Business Computer Programming
ISB392 Business Computing
MNB642 Business Forecasting
ACB140 Business Law
ACN834 Business Law & Ethics
ACB440 Business Law Honours
LWN006 Business Planning: Tax Constraints
MNN403 Business Policy
MNB252 Business Statistics
MNB432 Business Strategy

C

BTB655 CAD for Industrial Designers
SVT511 CAD Systems
MET573 CAD/CAM Technology
SVP111 Cadastral Surveying I
SVP211 Cadastral Surveying II
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
CHN710 Chem Instrumentation & Electronics
CHA320 Chemical Process Principles I
CHA520 Chemical Process Principles II
CHB327 Chemical Technology III

CHB427	Chemical Technology IV	PND540	Clinical Physiology II
CHB527	Chemical Technology V	PND640	Clinical Physiology III
CHB627	Chemical Technology VI	PNB303	Clinical Podiatry I
CHS200	Chemistry	PNB412	Clinical Podiatry II
CHD148	Chemistry	PNB504	Clinical Podiatry III
CHB142	Chemistry I	PNB603	Clinical Podiatry IV
CHB101	Chemistry IA	NSB112	Clinical Practice I
CHB102	Chemistry IB	NSD122	Clinical Practice IA
CHB242	Chemistry II	NSD123	Clinical Practice IB
CHB201	Chemistry IIA	NSB212	Clinical Practice II
CHB202	Chemistry IIB	NSD222	Clinical Practice IIA
CHB382	Chemistry III	NSD223	Clinical Practice IIB
CHA230	Chemistry of Inorganic Materials	NSD322	Clinical Practice IIIA
CHB640	Chemistry VI	NSD323	Clinical Practice IIIB
CHN720	Chemometrics & Stat Anal of Chemdata	NSD422	Clinical Practice IVA
NSN120	Child & Adolescent Nursing I	NSD423	Clinical Practice IVB
NSN121	Child & Adolescent Nursing II	NSD522	Clinical Practice VA
NSN122	Child & Adolescent Nursing III	NSD523	Clinical Practice VB
EEB203	Circuit Analysis	NSD622	Clinical Practice VIA
EEB101	Circuits & Measurements	NSD623	Clinical Practice VIB
CET704	Civil Construction Practice	PHB279	Clinical Radiography I
CEB304	Civil Engineering Design I	PHB379	Clinical Radiography II
CEB405	Civil Engineering Design II	PHB479	Clinical Radiography III
CET585	Civil Engineering Drafting	PHB579	Clinical Radiography IV
CET387	Civil Engineering Drafting A	PHB679	Clinical Radiography V
CEB102	Civil Engineering I	PHB289	Clinical Radiotherapy I
CET195	Civil Engineering I	PHB389	Clinical Radiotherapy II
CEB291	Civil Engineering Materials	PHB489	Clinical Radiotherapy III
CEB501	Civil Engineering Practice I	PHB589	Clinical Radiotherapy IV
CET703	Civil Engineering Practice I	PHB689	Clinical Radiotherapy V
CET802	Civil Engineering Practice II	PHN157	Clinical Ultrasound I
CEB506	Civil Engineering Practice II	PHN257	Clinical Ultrasound II
CEB701	Civil Engineering Quantities I	PHN357	Clinical Ultrasound III
CEB801	Civil Engineering Quantities II	ASB300	Cooperative Education I
CET286	Civil Office Practice	ASB400	Cooperative Education II
CET287	Civil Office Practice A	ESB607	Coal Geology
LWB404	Civil Procedure	CEB561	Coastal Engineering
CEB220	Civil Systems I	MAB920	Coding & Encryption Techniques
CEB421	Civil Systems II	ISP410	Collection Build & Use I
MAB635	Classical Theoretical Mechanics	ISP420	Collection Build & Use II
ISN240	Classification	ISP431	Collection Building & Acquisitions
MSA441	Clin Microbiol Techs III	MNB121	Colloquial Japanese
MSA442	Clin Microbiol Techs IV	ACB341	Commercial & Securities Law
MSB756	Clinical Bacteriology VI	LWN007	Commercial Arbitration
MSA471	Clinical Biochem Techs III	LWB303	Commercial Law
MSA472	Clinical Biochem Techs IV	ACN175	Commercial Law Honours
MSN510	Clinical Biochemistry I	LWN008	Commercial Leases
MSN610	Clinical Biochemistry II	CMB521	Communic & Public Opinion
MSB718	Clinical Biochemistry V	CMB134	Communication
MSB719	Clinical Biochemistry VI	CMN811	Communication & Culture
PND752	Clinical Biomechanics	CMN810	Communication & Society
MSN513	Clinical Immunology I	CMN720	Communication Evaluation
OPB505	Clinical Optometry V	CMB135	Communication for Engineers
OPB605	Clinical Optometry VI	CMB321	Communication in Small Groups
OPB705	Clinical Optometry VII	CMN824	Communication Policy & Planning
OPB805	Clinical Optometry VIII	CMP407	Communication Policy Environment
PNB665	Clinical Physiology	CMB211	Communication Research
PND340	Clinical Physiology I	CMP403	Communication Research Methodology

CMN813	Communication Strategies	CSB201	Computer Systems II
CMA133	Communication Techniques	CSB282	Computer Systems II
EEB961	Communication Techniques	ISB492	Computerised Accounting Systems
CMP408	Communication Technologies & Society	LWB482	Computers & the Law
CMP401	Communication Theory I	CHA410	Computers in Chemistry
CMP402	Communication Theory II	CSB262	Computing
EET560	Communications Engineering I	CSA165	Computing
EET760	Communications Engineering II	INB001	Computing Practice (N.O.T.E.) I
EET860	Communications Technology	INB002	Computing Practice (N.O.T.E.) II
CMB351	Community Relations	LPN112	Concentration Officer
ACB212	Company Accounting	NSN102	Concepts for Advanced Clinical Nurs
LWB401	Company Law & Partnership	NSD121	Concepts for Nursing Practice I
ACB342	Company Law & Practice	NSD221	Concepts for Nursing Practice II
ACN119	Company Secretarial Practice	NSD321	Concepts for Nursing Practice III
MNB683	Comparative Administration	NSD421	Concepts for Nursing Practice IV
ACB352	Comparative Financial Systems	NSD521	Concepts for Nursing Practice V
CMB572	Comparative Journalism	NSD621	Concepts for Nursing Practice VI
LPN111	Comparative Planning Theory	CMN709	Concepts in Communication
MNB586	Comparative Politics	CEB532	Concrete & Masonry Structures
ISN190	Comparative Study of Inform Agencies	CET655	Concrete & Steel Design
CSN110	Compiler Construction	CET435	Concrete Practice
CSN340	Compiler Laboratory	CEB202	Concrete Structures
PHB583	Complementary & Evolving Techniques	CEB306	Concrete Structures II
ASP702	Complementary Studies	CEB231	Concrete Technology
CET894	Computations A	LWB407	Conflict of Laws
PHB681	Computed Tomography Imaging	BTN301	Conservation & Reuse in Urban Des
LPP216	Computer Aided Data Analysis A	ARP602	Conservation of Historic Interiors
LPP217	Computer Aided Data Analysis B	LPP505	Conservation Theory
MET920	Computer Aided Design & Drafting	BTB649	Conservation Theory
CET887	Computer Aided Drafting	LWB203	Constitutional Law
ISB180	Computer Applications	BGB151	Construction I
BEA349	Computer Applications in Biology	BGB154	Construction II
LPP335	Computer Applications in Planning	BGB153	Construction II
LPP418	Computer Applications in Planning	BGB172	Construction II
PHB585	Computer Assisted Treatment Plan I	BGB253	Construction III
PHB685	Computer Assisted Treatment Plan II	BGB254	Construction IV
ACN121	Computer Auditing	CET606	Construction Management
ISB393	Computer Based Inform Systems	CEP107	Construction Management & Economics
MEB977	Computer Control of Manuf Systems	CEB305	Construction Planning & Economics
EEB922	Computer Controlled Systems	CEB307	Construction Practice
MAB174	Computer Data Analysis	MNB392	Consumer Behaviour
SVT991	Computer Graphics I	OPB617	Contact Lens Studies VI
SVT992	Computer Graphics II	OPB717	Contact Lens Studies VII
EEP103	Computer Hardware & Interfacing	MNN601	Contemporary Health Care Issues
MEB976	Computer Integrated Manufacturing	CMB311	Contemporary Social Issues
EET690	Computer Organisation	EEB520	Control Engineering
EET490	Computer Packages	EEB620	Control Systems Analysis
CSB294	Computer Programming	EET420	Control Systems I
EET790	Computer Programming I	EET522	Control Systems II
CST390	Computer Programming I	ACB220	Cost Accounting
EET791	Computer Programming II	BGP429	Cost Management & Economics
ISP401	Computer Project	BGB647	Cost Planning & Cost Control I
ACB360	Computer Security & Audit	BGB648	Cost Planning & Cost Control II
ISN150	Computer Security Risk Modelling	MNB666	Counselling for Health Professionals
BGB451	Computer Software Applications I	CMB461	Creative Writing
BGB452	Computer Software Applications II	LWN032	Credit for UQ Subject I
CSB101	Computer Systems I	LWN033	Credit for UQ Subject II
CSB281	Computer Systems I	LWN034	Credit for UQ Subject III

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
MSA465 Cytological Techniques III
MSA466 Cytological Techniques IV

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PHN704 Data Analysis in Physics
INP270 Data Communications
INB270 Data Communications
EEP124 Data Communications
INB285 Data Communications
ISP101 Data Design & Processing
BEP793 Data Handling, Interp & Biometrics
SVB111 Data Presentation I
SVB211 Data Presentation II
SVB212 Data Presentation IIA
SVB311 Data Presentation III
CSB323 Data Security
ISB202 Database & Procedural Languages
ISB283 Database & Procedural Languages
ISB302 Database Management
ISN120 Database Systems
MNN202 Decision Support Systems
LPP215 Department Field Trip
LPP420 Department Field Trip & Workshop
PND701 Dermatology
PNB502 Dermatology
EET880 Design
MEB381 Design II
MEB773 Design for Manufacturing I
MEB974 Design for Manufacturing II
ARB193 Design I
EEB587 Design I
MEB101 Design I
BTB300 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 Transmissn Systems
CEB401 Design Project
BTB408 Design Science

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
SVP213 Detail Surveys
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 Eye VI
MSN530 Dissertation
NSN403 Dissertation
ACB411 Dissertation
BGP442 Dissertation
ACN950 Dissertation
INN500 Dissertation
CMP409 Dissertation
MNN607 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 Drainage Engineering
ARP652 Dsgn Mgmt & Decision Theory
MEB111 Dynamics
MEB010 Dynamics I
MEB012 Dynamics II

■ E

ESB101 Earth Science IA
ESB102 Earth Science IB
MNP218 Economic Analysis
MNB025 Economic Analysis for Geologists
ESB367 Economic Mineral Deposits
MNB614 Economic Seminars
MNN608 Economics & Health
BGB343 Economics of Construction Industry
BTB552 Economics of Industrial Production

MNB591	Economics of Information	EEB430	Engineering Fields
MNB639	Economics of Strategic Management	ESB653	Engineering Geology
BTB561	Economics of Town Planning	EST219	Engineering Geology
LPP562	Economics of Town Planning	MEB121	Engineering Graphics
BTB651	Elective (Landscape Architecture)	EEB820	Engineering Management
BTB654	Elective (Planning)	MET140	Engineering Materials I
CSB999	Elective I	MET433	Engineering Materials II
ARB597	Elective I	MAB193	Engineering Mathematics I
CSB998	Elective II	MAB493	Engineering Mathematics II
ARB697	Elective II	MAB893	Engineering Mathematics III
CSB997	Elective III	MAB894	Engineering Mathematics IV
CSB996	Elective IV	CET135	Engineering Mechanics
BGB661	Elective Research Project I	CEB184	Engineering Mechanics I
BGB662	Elective Research Project II	CEB185	Engineering Mechanics II
ARP522	Elective Study I	PHB132	Engineering Physics IA
ARP531	Elective Study II (Thesis)	PHB232	Engineering Physics IIA
CSB995	Elective V	MEB772	Engineering Project Appraisal
EEB954	Electrical Energy Utilisation	CEB364	Engineering Science II
EET100	Electrical Eng Computations	CEB504	Engineering Science III
MET123	Electrical Engineering Drawing IA	ENS100	Engineering Skills
MET223	Electrical Engineering Drawing IIA	SVP217	Engineering Surveying
EET111	Electrical Engineering I	SVT306	Engineering Surveying I
EET211	Electrical Engineering II	IFB001	English for Academic Purposes
EET350	Electrical Engineering III	INB099	English for Academic Purposes
EEB209	Electrical Engineering IIM	CMB108	English for Technologists
EET650	Electrical Equipment	BTB403	Environ Studies - Environ Impacts
EEB404	Electrical Machines	MNN603	Environmental & Occup Health (GU)
EEB553	Electrical Power Equipment	CHB411	Environmental Analyt Chem
EEB400	Electrical Power Systems	BEA403	Environmental Biology
EET642	Electrical Power Systems I	CHB691	Environmental Chemistry
EEB531	Electrical Power Transmission	ARP502	Environmental Communications
EET500	Electrical Technology	PNN101	Environmental Health
PHB502	Electromagnetic Field Theory	PNB203	Environmental Health III
EEB202	Electromagnetics	PNB204	Environmental Health IV
MSB421	Electron Microscopy	PNB520	Environmental Health Management I
EEB371	Electronic Devices	PNB620	Environmental Health Management II
PHN350	Electronics	PNB205	Environmental Health V
EEB471	Electronics	PNB206	Environmental Health VI
PHB308	Electronics I	ARB387	Environmental Impact Studies
EET270	Electronics I	BEB447	Environmental Monitoring
PHB408	Electronics II	LPP511	Environmental Psychology
EET570	Electronics II	BTB113	Environmental Science
PHB508	Electronics III	MSD680	Epidemiology
EEB302	Electrotechnology	PNB513	Epidemiology
MNB120	Elementary Japanese	MSN150	Epidemiology & Research Strategies
LPP352	Employment & Industry	CET776	Equipment Operation & Maintenance
MET850	Energy Management	LWB301	Equity
CHB628	Energy Technology	BTB220	Ergonomics I
CEB393	Eng Investigating & Reporting I	BTB320	Ergonomics II
CEB492	Eng Investigating & Reporting II	BTB420	Ergonomics III
CEP131	Eng Management & Administration	BGB446	Estimating I
CHB346	Engineering Chemistry C	BGB540	Estimating II
CHB344	Engineering Chemistry M	ISN260	Evaluation of Inform Services & Org
MET101	Engineering Drawing	LWB402	Evidence
MET120	Engineering Drawing I	IFB999	Exchange Program
MET220	Engineering Drawing II	MAB258	Experimental Design
MET320	Engineering Drawing III	BEB358	Experimental Design
MET420	Engineering Drawing IV	PHB316	Experimental Physics III

PHB416 Experimental Physics IV
PHB516 Experimental Physics V
ISB313 Expert Information Systems
ISP313 Expert Information Systems
CSB325 Expert Systems
MNB411 Export Management
MSN001 External Elective (supporting)
MSN002 External Elective (supporting)
MSN003 External Elective (supporting)
MSN004 External Elective (supporting)
BEA090 External Projects I
BEA099 External Projects II
ACN127 External Reporting Issues
ISB215 External Sources of Information

F

LWB302 Family Law
ESB577 Field Excursions V
ISP428 Field Experience
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
CEB404 Field Trip
BGP437 Field Trip
CMB561 Film & Television Script Writing
CMB664 Film & Video Business
CMB662 Film Drama Production
ARP601 Film, TV & Design for Theatre
ACB430 Finance Honours
ACN151 Finance Honours
ACB412 Financial Accounting Honours
ACN111 Financial Accounting Honours
ACN810 Financial Accounting I
ACN820 Financial Accounting II
ACN830 Financial Accounting III
MNB582 Financial Administration
ACB345 Financial Institutions - Law
ACB350 Financial Institutions - Lending
ACB351 Financial Institutions - Management
ACB481 Financial Management for Engineers
ACB230 Financial Management I
ACB331 Financial Management II
MAB442 Financial Mathematics
ACN155 Financial Modelling
ACB322 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 I
PNB318 Food Studies I
PNP112 Food Studies II
PNB418 Food Studies II
PNB518 Food Studies III
CSN320 Formal Secure Systems
ISN110 Formal Systems Specification
BGB601 Formwork Design & Construction
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
BTB431 Furniture & Fittings II
BTB531 Furniture & Fittings III
BTB631 Furniture & Fittings IV

G

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
ESB687 Geological Investigations
ESA310 Geology
ESP702 Geology Case Studies
ESP703 Geology Case Studies II
ESB519 Geology for Engineers
ESB437 Geophysics
CEB440 Geotechnical Engineering I
CEB341 Geotechnical Engineering I
CEB541 Geotechnical Engineering II
CEB542 Geotechnical Engineering III

NSN117	Gerontological Nursing I	ARP603	Historic Technologies
NSN118	Gerontological Nursing II	ESB201	Historical Geology
NSN119	Gerontological Nursing III	ARB491	History of Architecture & Art III
ESP708	Global Plate Tectonics	ARB591	History of Architecture & Art IV
MNB686	Government & Business	LPP503	History of Landscape Design
MNN203	Government - Business Relations	LPP560	History of Planning
ACB320	Government Accounting	ARB197	History of the Built Environ I
ISP419	Government Documents	ARB198	History of the Built Environ II
MNB231	Government Economic Policy	BTB102	History of the Built Environment I
ACB330	Government Finance	BTB202	History of the Built Environment II
MNB451	Government, Business & Law	ARP671	History, Theory & Criticism of Ind Ds
MNB613	Govt Policy & the Tourism Industry	LWN100	Honours Dissertation
BTB645	Grading	INN210	Honours Project II
BTB346	Graphic Communication	BTB656	Housing & Community Services
ARB911	Graphic Design I	LPP566	Housing & Community Services
ARB912	Graphic Design II	PNB163	Human Anatomy I
CSB321	Graphics	PNB363	Human Anatomy III
EEP122	Graphics & Computer Vision	ISN180	Human Computer Interface
NSN201	Grief & Bereavement	PNP116	Human Factors

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MSA481	Haematological Techs III	PNB483	Human Factors I
MSA482	Haematological Techs IV	PNB512	Human Factors II
MSN511	Haematology I	MNP123	Human Factors in Quality
MSN611	Haematology II	PNB305	Human Nutrition I
MSB426	Haematology IV	PNB405	Human Nutrition II
MSB726	Haematology V	PNB435	Human Physiology
MSB727	Haematology VI	PNB115	Human Physiology I
PNB611	Hazard Assessment & Management	PNB116	Human Physiology II
PNB511	Hazard Assessment & Management I	MNB587	Human Resource Policies
PHN204	Health & Occupational Physics	MNB361	Human Resources & the Organisation
MNB518	Health Admin Project	NSN203	Human Sexuality & Health
ACB280	Health Administration Finance	CET365	Hydraulic Engineering
MNB331	Health Care Economics I	CEB360	Hydraulic Engineering I
MNB431	Health Care Economics II	CEB460	Hydraulic Engineering II
MNN609	Health Care Finance	CEB560	Hydraulic Engineering III
MNB618	Health Computer Systems	BEA060	Hydrobiological Techniques
MNB319	Health Information Management I	ESB627	Hydrogeology
MNB419	Health Information Management II	CEB361	Hydrology
MNB519	Health Information Management III	BGB345	Hygiene & Sanitation
MNB619	Health Information Management IV		
MNB505	Health Management I	ESB547	Igneous & Metamorphic Petrology III
MNB605	Health Management II	PHB578	Image Interpretation I
MNN602	Health Planning, Mgmt & Evaluation	PHB572	Image Recording & Evaluation
PNB612	Health Promotion & Education	PNB425	Imaging Anatomy
MNB534	Health Services Evaluation	MSB420	Imaging Pathology
MNN610	Health Services Management	MSB713	Immunohaematology VI
MNB543	Health Services Planning	MSA435	Immunological Techniques III
MEB550	Heat Transfer	MSB412	Immunology IV
EEB951	High Voltage Equipment	MSB712	Immunology V
CEB312	Highway Engineering	BTB650	Impacts & Assessment
MSA463	Histological Techs III	LPP515	Impacts & Assessment
MSA464	Histological Techs IV	NSN205	Independent Study
MSN512	Histopathology I	MNB523	Independent Study HRD
MSN612	Histopathology II	MNB561	Independent Study HRM
MSB492	Histopathology IV	MNB515	Independent Study Unit, Ind Rel
MSB792	Histopathology V	ACN176	Indirect Taxation
MSB793	Histopathology VI	CMN831	Individual Research
		ISP452	Individual Study

CHA610	Industrial Analysis	ISP429	Information Brokerage
CHA368	Industrial Chemistry	MAN008	Information Retrieval
ARP672	Industrial Design I	CHN702	Information Retrieval I
ARP673	Industrial Design II	PHN701	Information Retrieval I
ARP674	Industrial Design Research I	CHN802	Information Retrieval II
ARP675	Industrial Design Research II	IFN001	Information Retrieval Skills
EEB573	Industrial Electronics	ASP701	Information Retrieval Skills
EET870	Industrial Electronics	ISP433	Information Sources & Services
ENT100	Industrial Employment I	ISB316	Information Support Systems
ENT200	Industrial Employment II	ISN100	Information Systems I
ENT300	Industrial Employment III	ISN300	Information Systems II
ENT400	Industrial Employment IV	ISB314	Information Systems Management
ENT500	Industrial Employment V	ISP314	Information Systems Mgmt
ENT600	Industrial Employment VI	EEB661	Information Theory & Noise
ENT700	Industrial Employment VII	MNN816	Initial Project in Management
ENT800	Industrial Employment VIII	SVP215	Innovations & Systems Development
MEB670	Industrial Engineering I	CHB230	Inorganic Chemistry II
MEB771	Industrial Engineering II	CHB430	Inorganic Chemistry IV
SVB199	Industrial Experience I	CHB530	Inorganic Chemistry V
CEB192	Industrial Experience I	LWB307	Insolvency Law
EEB206	Industrial Experience I	CHB510	Instrumental Analysis
MEB200	Industrial Experience I	CHA318	Instrumental Analytical Chem
EEB901	Industrial Experience I	CHA240	Instrumental Techniques
CEB292	Industrial Experience II	PHB405	Instrumentation
SVB299	Industrial Experience II	PHN302	Instrumentation
EEB406	Industrial Experience II	ACB335	Insurance Risk Management
MEB300	Industrial Experience II	EEB473	Integrated Circuits
EEB902	Industrial Experience II	EEB972	Integrated Electronic Techniques
CEB392	Industrial Experience III	BTB335	Interior Technology I
MEB600	Industrial Experience III	BTB435	Interior Technology II
SVB399	Industrial Experience III	BTB535	Interior Technology III
EEB606	Industrial Experience III	BTB635	Interior Technology IV
MEB402	Industrial Experience III	ACN123	Internal Auditing
EEB903	Industrial Experience III	MNB533	Internat Health Care Syst
LWB308	Industrial Law	ACN118	International Accounting
MNB043	Industrial Management	MNB626	International Economics
MET733	Industrial Metallurgy	ACN153	International Finance
MEB810	Industrial Noise & Vibration	ACB336	International Finance
MET971	Industrial Practice	MNB526	International Marketing
CMB451	Industrial Press	MNB504	International Politics & Business
MNB018	Industrial Relations	ACN172	International Taxation
MNB363	Industrial Relations I	MNB661	Interviewing & Counselling
MNB630	Industrial Relations II	MNB111	Intro Psychology for Health Prof
MET933	Industrial Tribology	MNB184	Intro to Admin & Political Analysis
CHB660	Industrial Visits	CMB163	Intro to Audio-vis Communic
PNB614	Industry Specialisations	CHB002	Intro to Engineering Chemistry
LWS004	Info Managers & the Law	ISP453	Intro to Records Management
ISB201	Info Systems Analysis & Design I	MAB331	Intro Vector Analysis
ISB210	Info Systems Analysis & Design II	LPP404	Intro to Theories of Planning
ISP413	Info Agency Mgt & Serv I	ISB263	Intro to Computers & Info Systems
ISP423	Info Agency Mgt & Serv II	PNP124	Intro to Dietetics Practice I
ISP411	Info Storage & Retrieval I	PNP125	Intro to Dietetics Practice II
ISP421	Info Storage & Retrieval II	ARP501	Intro to Facilities Management
ISB290	Info System Analysis & Design II	PHN102	Intro to Medical/Stats Computing
ISB281	Info Systems Analysis & Design I	LPP321	Intro to Theories of Plng
ISP412	Info Users & Services I	CMB241	Introduction to Advertising
ISP422	Info Users & Services II	BEA339	Introduction to Bioculture
ISP418	Information & Referral Services	CSB100	Introduction to Computer Science

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
BTB345 Introduction to Ecology
BTB440 Introduction to Economics
PNB207 Introduction to Environmental Health
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
MEB171 Introduction to Manufacturing
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
LPP513 Introduction to Plant Ecology
LPP512 Introduction to Plant Science
LPP508 Introduction to Practice
CMB452 Introduction to Public Relations
BTB151 Introduction to Technology
BTB343 Introduction to the Professions
LPS102 Introduction to Town Planning
LPP561 Introduction to Urban Design
ACB382 Introductory Accounting
MSA113 Introductory Biochemistry
BEB149 Introductory Biology
BEA108 Introductory Biology
SVT113 Introductory Cartography
CHB001 Introductory Chemistry
CHA145 Introductory Chemistry
BTB100 Introductory Design I
BTB200 Introductory Design II
ACB384 Introductory Legal Studies
MNB253 Introductory Marketing
MAS090 Introductory Mathematics
ASB200 Introductory Meteorology
PHB104 Introductory Physics
PHA154 Introductory Physics
MNB322 Introductory Training & Development
BGB466 Invest Dec & Fin Strategy II
BGB465 Invest Dec & Fin Strategy I
BTB643 Issues & Ethics

J

MET782 Jig & Tool Design
CMB673 Journalism Ethics & Issues
CMP405 Journalism Seminar
CMP110 Journalistic Writing
LWB305 Jurisprudence

K

PHB252 Kinesiology & Biomechanics
ISN160 Knowledge Based Systems

L

CHN740 Lab Techniques for Preparative Chem
CHB618 Laboratory Automation
CSB259 Laboratory Computing I
MSB405 Laboratory Computing III
MSA123 Laboratory Instrumentation I
MSA124 Laboratory Instrumentation II
MSN405 Laboratory Medicine
CET837 Laboratory Practice
CET235 Laboratory Practice A
CHA111 Laboratory Techniques
MSB145 Laboratory Technology II
MSB445 Laboratory Technology III
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 Practice I
SVB664 Land Development Practice II
BGB626 Land Development Studies
LPP524 Land Grading
SVB473 Land Information Systems I
SVB563 Land Information Systems II
LWB201 Land Law
ESB377 Land Law & Mining Applications
SVT471 Land Laws & Regulations
SVB352 Land Studies A
SVB451 Land Studies B
SVT316 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
LPP551 Land Use Generation
BTB647 Land Use Policies
SVB551 Land Valuation
BTB511 Landscape Construction
LPP523 Landscape Construction
LPP205 Landscape Design
BTB411 Landscape Ecology
LPP514 Landscape Ecology
LPP214 Landscape Engineering
LPP520 Landscape Graphics
BTB565 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
BGB668 Law 6 - Valuation of Land
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
ASB101 Learning at University
LWP001 Legal Practice
LWB104 Legal Research & Writing I
LWB415 Legal Research & Writing II
LWN010 Legislation
ISP414 Lib Service to Yng People
CHA991 Liberal Studies Elective
ISP454 Library Programs & Services
ISP442 Library Programs Management
ISP430 Library Systems Evaluation
BTB132 Light & Colour Studies
MAB310 Linear Algebra
MAB410 Linear Algebra
MAB710 Linear Algebra B
ACN174 Liquidations & Receiverships
CMB161 Literature & Communication
PHN706 Literature Review I
PHN707 Literature Review II
LWN011 Litigation
MNB482 Local Government
LWB306 Local Government Law
MNB684 Local Govt Admin Pract II
MNB584 Local Govt Admin Practice I

M

MET580 Machine Elements I
MET680 Machine Elements II
MNB251 Macroeconomic Analysis
MNB472 Macroeconomic Policy
MNB372 Macroeconomic Theory
CMB462 Magazine & Feature Writing
INN401 Major Project
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
ISN156 Management Information Systems
ISB156 Management Information Systems
MNB405 Management Science A
ACB321 Managerial Accounting
ACN840 Managerial Accounting
ACB420 Managerial Accounting Honours
ACN231 Managerial Accounting Honours
ACN232 Managerial Accounting Issues A
ACN233 Managerial Accounting Issues B
ACB282 Managerial Accounting Principles
MNN106 Managerial Economics
ACN835 Managerial Finance
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
SVP214 Mapping
SVB103 Mapping & Surveying for Field Scient
BTB556 Marketing
MNB091 Marketing
MNB525 Marketing Decision Making
MNB391 Marketing Management
MNN204 Marketing Methods & Practices
MNB592 Marketing Research
BGB103 Material Science I
BGB173 Material Science I
BGB104 Material Science II
BGB174 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
MEB031 Materials Technology
MAB788 Mathematical Statistics

MAB417	Mathematical Statistics A	PHB387	Megavoltage Therapy II
MAB418	Mathematical Statistics B	PHB487	Megavoltage Therapy III
MAB317	Mathematical Statistics I	MAB941	Methods of Mathematical Economics
MAB318	Mathematical Statistics IIA	MAB921	Methods of Mathematical Physics A
MAB608	Mathematical Statistics IIB	LPN115	Metropolitan Planning Practice & Law
MAB907	Mathematical Statistics IIIA	MNN808	Mgmt, Technology & Social Change
MAB908	Mathematical Statistics IIIB	MSB511	Microbial Physiology & Metabolism V
MAS091	Mathematics	MSB610	Microbial Technology
MAB298	Mathematics & Statistics	MSB150	Microbiology
MAS092	Mathematics A	MSD742	Microbiology
MAB297	Mathematics for Construction	MSB201	Microbiology
MAB251	Mathematics I	MSB101	Microbiology I
MAB211	Mathematics IA	MSB301	Microbiology I
MAB224	Mathematics IB	MSD360	Microbiology I
MAB225	Mathematics IC	MSA161	Microbiology I
MAB226	Mathematics ID	MSN515	Microbiology I
MAB411	Mathematics IIA	MSB102	Microbiology II
MAB412	Mathematics IIB	MSB402	Microbiology II
MAB425	Mathematics IIC	MSD460	Microbiology II
MAB342	Mathematics of Finance	MSA162	Microbiology II
MAB001	Maths for Science & Technology	MSN615	Microbiology II
BGB005	Measurement of Construction I	MSB450	Microbiology III
BGB131	Measurement of Construction IA	MSB103	Microbiology III
BGB245	Measurement of Construction IB	MSB454	Microbiology IV
BGB006	Measurement of Construction II	MSB755	Microbiology V
BGB246	Measurement of Construction IIB	ISB382	Microcomputer Applications
BGB009	Measurement of Construction III	ISB385	Microcomputer Software Applications
BGB010	Measurement of Construction IV	EEB273	Microcomputers in Engineering
BGB461	Measurement of Construction V	MNB151	Microeconomic Analysis
BGB462	Measurement of Construction VI	MNB471	Microeconomic Policy
BGB524	Measurement of Construction VII	MNB371	Microeconomic Theory
LPP522	Measurement of Sites	EET590	Microprocessor Systems
BGB444	Mechanical & Electrical Estimating	PHN301	Microprocessors
MEB489	Mechanical Design Project	EEB472	Microprocessors
MET940	Mechanical Measurements	BEA198	Microscopy Techniques
MET601	Mechanical Plant	EEB662	Microwave & Antenna Technology
MET421	Mechanical Project IA	EEB962	Microwave Systems Engineering
MAB735	Mechanics	NSN114	Midwifery I
MEB313	Mechanics I	NSN115	Midwifery II
MEB610	Mechanics II	NSN116	Midwifery III
LWB480	Media Law	ESB517	Mineral Exploration
CMB541	Media Strategy	LWB481	Mineral Law
CMB562	Media Text Analysis	ESA510	Mineralogy Techniques
PHN206	Medical Imaging	ESB697	Mining Feasibility Studies
PHN304	Medical Imaging Science	ESB617	Mining Geology
PHA213	Medical Instrumentation II	INN300	Minor Project
PHB475	Medical Radiation Computing I	INN301	Minor Project
PHB575	Medical Radiation Computing II	INN302	Minor Project
MNB320	Medical Terminology	INN303	Minor Project
PHB473	Medical Ultrasound	CSB350	Miscellaneous Studies
NSN105	Medical/surgical Nursing I	MAB309	Modern Algebra
NSN106	Medical/surgical Nursing II	MAB409	Modern Algebra
NSN107	Medical/surgical Nursing III	CMN814	Modern Communication Technologies
PNP142	Medicine	EET720	Modern Control Technology
PNB410	Medicine	CMB463	Modern Literature & Film in Society
LWS001	Medicine & the Law	MSN110	Molecular Basis of Disease
LWB483	Medico-Legal Issues	MSN101	Molecular Basis of Disease I
PHB287	Megavoltage Therapy I	MSN201	Molecular Basis of Disease II

MSB530 Molecular Biology
MSP105 Molecular Diagnosis of Disease
CMB442 Motivation & Ethics in Advertising
MAN009 Moving Boundary Problems
MAB601 Multivariable Calculus A
MAB602 Multivariable Calculus C
CET707 Municipal Engineering
CEP128 Municipal Engineering Planning
CEP491 Municipal Engineering Practice
CEP109 Municipal Law & Regulations

■ N

CMB466 Narrative Concepts
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
LWN020 Non-resident & Foreign Source Tax
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
NSB240 Nursing Practice I
NSB241 Nursing Practice II
PNN102 Nutrition & Lifestyle
MSB631 Nutritional Biochemistry

■ O

ISN130 Object-orientated Systems
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
PNB482 Occupational Health
PNB210 Occupational Health & Safety I
PNB212 Occupational Health & Safety I
PNB211 Occupational Health & Safety II
PNP416 Occupational Health & Safety Project
PHP250 Occupational Hygiene
PNB485 Occupational Hygiene I
PNB585 Occupational Hygiene II
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
SVP113 Office Operations
PHB683 Oncological Imaging
ISP441 Online Information Services
CSB301 Operating Systems
MNB551 Operations Management
MAB737 Operations Research A
MAB738 Operations Research B
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 & Mineragraphy
PHN150 Optics
PHB311 Optics & Acoustics
PHB240 Optics II
PHB340 Optics III
LPN124 Option Course
LPN113 Option Projects
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
ISP432 Organisation of Knowledge
MNB351 Organisational Analysis & Management
CMP125 Organisational Communication
MNN814 Organisational Economics
MNN812 Organisational Psychology
MNB516 Organisational Sociology
ISN280 Organisations, Systems & Information
PNB411 Orthopaedics
PNB420 Orthotic Science I
PNB506 Orthotic Science II
PND742 Orthotics VI
PHB587 Orthovoltage & Superficial Therapy

■ P

LWN012 Pacific Legal Systems
MNB528 Pacific Rim Economic Relations

NSN204	Pain: a Nursing Focus	PNB465	Physiology III
EEP121	Parallel & Super Computing	LPN123	Planning in Developing Countries
CSN310	Parallel Processing	LPP412	Planning Prac & Law (Reg & Strateg)
MSA121	Pathology	LPP326	Planning Pract II (Urban)
MSN202	Pathology I	LPP336	Planning Practice & Law
MSN302	Pathology II	LPP411	Planning Practice & Law (Urban)
NSB252	Pathophysiology	LPN121	Planning Thesis
MSN306	Pathophysiology	BEA026	Plant Cell & Tissue Culture
MSN304	Pathophysiology I	MET650	Plant Engineering IA
MSN404	Pathophysiology II	CET876	Plant Operation & Maintenance
MNN302	People in Organisations	BEB321	Plant Physiology
MNB364	Pers Admin Systems/Occ Hlth & Safety	BEA021	Plant Physiology
ACB480	Personal & Corporate Finance	BEB621	Plant Physiology II
MNB254	Personnel Mgmt & Ind Relations	BTB342	Plant Recognition
NSD120	Perspectives for Nursing Practice I	BEB423	Plant Tissue Culture I
NSD220	Perspectives for Nursing Practice II	BEB523	Plant Tissue Culture II
NSD320	Perspectives for Nursing Practice III	BTB640	Planting Design
NSD420	Perspectives for Nursing Practice IV	LPP504	Planting Design
NSD520	Perspectives for Nursing Practice V	BGB301	PM1 - Advanced Constn Methods
NSD620	Perspectives for Nursing Practice VI	BGB529	PM2 - Quantitative Techniques
MSA120	Perspectives in Medicine	BGB547	PM3 - Construction Planning Techs I
ESP707	Petrochemistry	BGB548	PM4 - Construction Planning Techs II
ESB417	Petrography	BGB550	PM5 - Project Cost Control
ESB557	Petroleum Geology	BGB623	PM6 - Building Develop Techs I
PNB306	Pharmacology	BGB624	PM7 - Building Develop Techs II
SVB343	Photogrammetry I	BGB606	PM8 - Land Development Studies
SVT243	Photogrammetry I	PNB422	Podiatric Anaesthesiology
SVB443	Photogrammetry II	PNB302	Podiatric Medicine I
SVT343	Photogrammetry II	PNB421	Podiatric Medicine II
SVB643	Photogrammetry III	PNB503	Podiatric Medicine III
SVT443	Photogrammetry III	PNB505	Podiatric Surgery
CHB180	Physical & Inorganic Chemistry I	PND731	Podiatry V
CHA270	Physical Chemistry I	PND732	Podiatry VI
CHB270	Physical Chemistry II	MNN811	Policy Analysis
CHA370	Physical Chemistry II	ISB216	Polit & Social Aspects of Info Tech
CHA670	Physical Chemistry III	MNB281	Political Behaviour
CHB370	Physical Chemistry III	PNB300	Pollution Science I
CHB371	Physical Chemistry IIIC	PNB481	Pollution Science I
CHB470	Physical Chemistry IV	BEB357	Population & Systems Ecology
CHB471	Physical Chemistry IVC	BTB414	Population & Urban Studies
CHB570	Physical Chemistry V	LPP558	Population & Urban Studies
CHB571	Physical Chemistry VC	BEB444	Population Analysis
PNB304	Physical Medicine	BEA405	Population Biology
PHB510	Physical Methods of Analysis I	BEB535	Population Genetics
PHB312	Physical Properties of Materials	BEB653	Population Management
PHD351	Physics for Nurses	ACB332	Portfolio & Security Analysis
PHB170	Physics for Surveyors	BGB526	Post Contract Services I
PHB110	Physics IA	BGB653	Post Contract Services II
PHB111	Physics IB	EEB652	Power Electronics
PHB150	Physics IH	EEB944	Power Station Engineering
PHB210	Physics IIA	EEB741	Power Systems Analysis
PHB211	Physics IIB	EEB742	Power Systems Engineering
PHB260	Physics IIg	CMB666	Pr Consulting & Management
PHB250	Physics IIH	INB100	Practice I ('NJ232)
PHN151	Physics of Ultrasound	INB125	Practice IA (IFJ222)
MNB450	Physiological & Health Psychology	INB105	Practice IA (INJ232)
PHN405	Physiological Measurement	INB130	Practice IB (IFJ222)
PNB165	Physiology II	INB110	Practice IB (INJ232)

INB150	Practice II (INJ232)	MET350	Process Engineering
INB155	Practice IIA (INJ232)	CHA644	Process Measurement & Monitoring I
INB180	Practice IIB (IFJ222)	CHA744	Process Measurement & Monitoring II
INB160	Practice IIB (INJ232)	CEP200	Process Modelling
INB200	Practice III (CSJ128)	CET777	Process Operation & Control I
INB201	Practice III (ISJ210)	CET877	Process Operation & Control II
INB202	Practice III (ISJ243)	MEB950	Process Plant Design
INB205	Practice IIIA (CSJ128)	PHB275	Processing Technology
INB225	Practice IIIA (IFJ222)	MET572	Production Planning & Control
INB206	Practice IIIA (ISJ210)	EEB821	Production Technology & Quality
INB207	Practice IIIA (ISJ243)	CMB622	Prof Communication Practice
INB210	Practice IIIB (CSJ128)	ARP504	Prof Prac & Mgt for Int Designers I
INB211	Practice IIIB (ISJ210)	ARP505	Prof Prac & Mgt for Int Designers II
INB212	Practice IIIB (ISJ243)	NSB130	Professional Aspects of Nursing I
PNP123	Practice in Community Nutrition	NSB230	Professional Aspects of Nursing II
PNP132	Practice in Large Scale Feeding	CMB104	Professional Communication
PNP122	Practice in Therapeutic Dietetics	CMB106	Professional Communication
INB250	Practice IV (CSJ128)	LPP556	Professional Communication
INB251	Practice IV (ISJ210)	LWB409	Professional Conduct
INB252	Practice IV (ISJ243)	NSN104	Professional Issues in Nursing
INB255	Practice IVA (CSJ128)	MNB625	Professional Marketing Practice
INB275	Practice IVA (IFJ222)	ARP653	Professional Practice
INB256	Practice IVA (ISJ210)	SVB680	Professional Practice
INB257	Practice IVA (ISJ243)	CEB403	Professional Practice
INB260	Practice IVB (CSJ128)	SVP115	Professional Practice
INB281	Practice IVB (IFJ222)	PNB621	Professional Practice
INB261	Practice IVB (ISJ210)	SVB688	Professional Practice A
INB262	Practice IVB (ISJ243)	MSN720	Professional Practice I
SVP114	Practice Law	PNB516	Professional Practice I
MNB072	Practice Management	MSN820	Professional Practice II
PHS021	Preparatory Physics	PNB613	Professional Practice II
BTN601	Prescriptive Subject for Urban Des	LPP406	Professional Procedures & Ethics
NSN108	Primary Health Care Nursing I	LPN122	Professional Seminars
NSN109	Primary Health Care Nursing II	CMB422	Professional Speechwriting
NSN110	Primary Health Care Nursing III	ARB495	Professional Studies I
NSP171	Principles of Education	ARB595	Professional Studies II
MNN604	Principles of Epidemiology (UQ)	ARB695	Professional Studies III
ISB113	Principles of Information Mgmt	LPP361	Professional Procedures & Ethics
ISP113	Principles of Information Mgmt	MNB627	Program Evaluation
MNB302	Principles of Management	ISP303	Programming
PHB178	Principles of Medical Radiations	CSP214	Programming Languages & Structures
ESB220	Principles of Mineralogy	CSB482	Programming Languages & Structures
NSB201	Principles of Patient Care	CSB110	Programming Principles
CEB359	Principles of Structure I	CSB280	Programming Principles
CEB559	Principles of Structure III	CHB600	Project
ARB297	Principles of Structures I	IFP222	Project
ARB298	Principles of Structures II	MSN900	Project
CEB459	Principles of Structures II	MSP145	Project
ARB397	Principles of Structures III	OPB750	Project
ARB398	Principles of Structures IV	PND770	Project
CEB659	Principles of Structures IV	PHB616	Project
PNB514	Principles of Toxicology	PHB672	Project
PHB484	Principles of Treatment I	PHN520	Project
PHB584	Principles of Treatment II	PHN540	Project
PHN154	Principles of Ultrasound Imaging	MSP125	Project
LPP405	Procedural Planning Theory	ISB305	Project
LPP331	Procedural Planning Theory	IFB880	Project
EEP123	Process Control & Robotics	CEP999	Project



SVB683 Project
EEB789 Project
BEP700 Project
CHP700 Project
ESP700 Project
MSP146 Project
PNB622 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
BGB664 Project Development II
BGB663 Project Development Process I
BGB405 Project Equipment & Safety
PNP151 Project I
PNB517 Project I
PNP251 Project II
CET598 Project II
PNB617 Project II
PNP301 Project III
BGP431 Project Management
CEB505 Project Management & Administration
BGP432 Project Management II
BGP433 Project Management Law
SVT623 Project Mapping
SVB203 Project Survey
CSB960 Project Work
MAB960 Project Work
INB300 Project Work
CSP960 Project Work
INB301 Project Work
CSP970 Project Work A
BEB560 Projects I
BEB660 Projects II
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
NSN111 Psychiatric/Mental Health Nursing I
NSN112 Psychiatric/Mental Health Nursing II
NSN113 Psychiatric/Mental Health Nursing III
MND501 Psychology
MNB267 Psychology
MNB067 Psychology
MNB154 Psychology
MNB002 Psychology for Engineers
MND011 Psychology I

HSD011 Psychology I
MND033 Psychology II
MND055 Psychology III
MND066 Psychology IV
NSB250 Psychosocial Adaption
ACB381 Public Administrative Law
CMB671 Public Affairs Reporting
MNB485 Public Enterprise
CET775 Public Health Engineering
CEB370 Public Health Engineering I
CEB470 Public Health Engineering II
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
CMP406 Public Relations Seminar
BTB648 Public Services
CMB553 Publicity & Promotion - Electronic
CMB552 Publicity & Promotion - Print
ACN110 PY Module - Accounts
ACN120 PY Module - Audit & EDP
ACN170 PY Module - Taxation

■ Q

CHA219 Qualitative Analysis
PHB574 Quality Assurance in Medical Imaging
ACP213 Quality Cost Analysis
ISP380 Quality Information Systems
MEP273 Quality Measurement & Testing
MEP173 Quality Planning
MAP221 Quality Problem Solving Techniques
MNP112 Quality 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 Quantitative Techniques
LPP509 Quantities & Costs
BTB553 Quantities & Costs

■ R

PHB671 Radiation Biology
PHB272 Radiation Physics I
PHN103 Radiation Physics I
PHB471 Radiation Physics II
PHN104 Radiation Physics II
CMB571 Radio/Television Journalism I
CMB672 Radio/Television Journalism II
PHB374 Radiographic Equipment I
PHB474 Radiographic Equipment II
PHB313 Radiographic Image Interpretation
PHN402 Radiotherapy

PHB382	Radiotherapy Physics I	CEP127	Road & Traffic Engineering
PHB482	Radiotherapy Physics II	CET815	Road Location & Design
MSP123	Readings in Biomedical Science I	LPP333	Rural Land Use & Planning
MSP124	Readings in Biomedical Science II	LPP401	Rural Land Use & Planning
ESP710	Readings in Environmental Geology I		
ESP720	Readings in Environmental Geology II	S	
ENN001	Readings in Structural Engineering	CET709	Safety & Industrial Relations
BGB367	Real Estate - Accounting I	MEP201	Safety Technology & Practice I
BGB368	Real Estate - Accounting II	MEP301	Safety Technology & Practice II
BGP438	Real Estate Investment & Economics	MEB035	Safety Technology I
BGB567	Real Estate Practice I	PHB404	Safety Technology II
BGB568	Real Estate Practice II	MNB426	Sales Management
EEB601	Realtime Operating Systems	MAP211	Sampling Procedures
EEP104	Realtime Operating Systems	CSP213	Scientific Applications
MNB362	Recruitment & Selection	CSB213	Scientific Applications
PNB325	Regional & Sectional Anatomy	CSB283	Scientific Applications
PHB402	Relativity & Radiation Physics	ESB497	Sedimentology
MEP371	Reliability & Maintainability	LWN024	Select Problems of Tribunals & Enq
SVB645	Remote Sensing	LWN018	Select Problems of Trust
SVT945	Remote Sensing	BEB500	Selected Topics I
BTB562	Report Preparation	BEB600	Selected Topics II
LPP518	Report Preparation	SVT626	Seminar
CMB360	Reporting Principles	SVB282	Seminar I
ISB102	Representation of Information	PHN705	Seminar I
ISB107	Representation of Information	SVB682	Seminar II
ISB182	Representation of Information	CMN830	Seminar in Communication
LWB412	Research & Writing Project	CMN723	Seminar in Communication Research
CMN832	Research Colloquium	CHN703	Seminars
MNN807	Research Design & Data Analysis	CHB440	Separation Methods
LWN300	Research Dissertation	EEB372	Sequential Logic
BGP440	Research Methodology	MNB492	Services Marketing
INN200	Research Methodology	EEB602	Signal Processing
INN201	Research Methodology	EEB361	Signals & Systems
LPP339	Research Methods & Individ Project	BTB340	Site Measurement
LPP415	Research Methods & Individ Project	LPP507	Site Planning
NSN103	Research Methods in Nursing	LPP553	Site Planning Data & Techniques
EEP300	Research Project	LPP554	Site Planning Practice
CHN704	Research Project	LPP502	Site Planning Techniques
CHN714	Research Project	MNN606	Social & Behavioural Sciences (GU)
PHN708	Research Project	LPP318	Social & Political Structures
LWN025	Research Project I	LPP408	Social & Political Structures
LWN026	Research Project II	ISN270	Social Impacts of Inform Technology
BEP101	Research Seminars I	LPP402	Social Planning
BEP201	Research Seminars II	LPP344	Social Planning
MSP121	Research Strategies I	MNB323	Social Psychology
MSP122	Research Strategies II	CMD100	Sociology
BEP104	Research Techniques I	CMB111	Sociology
BEP204	Research Techniques II	HSD100	Sociology
LPP202	Residential Landscape Design	CMB300	Sociology for Health Professionals
LPP414	Resource Management	CMB119	Sociology for Professionals
LPP343	Resource Management	CMB400	Sociology of Health & Illness
LWN014	Resources Development Law	CMD200	Sociology of Health & Illness
PNA650	Respiratory Physiol & Anatomy	CSB490	Software Engineering
LWN017	Restitution	CSB302	Software Engineering
CMB441	Retail Advertising	CSP112	Software Principles
MNB491	Retailing Management I	CEB240	Soil Mechanics I
MNB524	Retailing Management II	CET645	Soil Mechanics I
CET565	Road & Drainage Engineering	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
BEP103 Special Research Topic I
BEP203 Special Research Topics II
ISN170 Special Studies
CSB319 Special Studies - Applied AI
CSB320 Special Studies - O O D
CMN899 Special Topic
MNN899 Special Topic
CSN370 Special Topic
ISP437 Special Topic
ISB999 Special Topic - Business Computing
ISB998 Special Topic - Business Computing
ISP998 Special Topic - Commercial Computing
ISP999 Special Topic - Commercial Computing
ISB317 Special Topic - Information Mgmt
ISP427 Special Topic - Library Science
ACN997 Special Topic - Commercial Law
ACN998 Special Topic - Mngl Acctg & Finance
ACN999 Special Topic - Public Accounting
ACB999 Special Topic Accountancy
ACA999 Special Topic Business
MNB997 Special Topic Health Admin
MEB500 Special Topic I
MEB601 Special Topic II
MEB701 Special Topic III
MNB517 Special Topic in Ind Relations
MNB611 Special Topic in Tourism
MEB800 Special Topic IV
MNB999 Special Topic Management
MNB998 Special Topic Public Admin
ISP417 Special Topic/Gen Elect
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
MNN605 Statistical Methods & Computing (UQ)
MAP111 Statistical Methods in Quality
MAP121 Statistical Process Control
MAB252 Statistics
MAP256 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
CEB281 Strength of Materials
MEB511 Stress Analysis
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 & Geotectonics
CET255 Structural Mechanics
CEB356 Structures
BGB143 Structures I
BGB175 Structures I
BGB144 Structures II
BGB176 Structures II
BGB257 Structures III
BGB258 Structures IV
ASP703 Studies in Global Systems A
ASP704 Studies in Global Systems B
CMB371 Sub-editing & Layout
EET840 Substations & Protection Systems
LWB309 Succession
MET901 Sugar Mill Technology I
MET902 Sugar Mill Technology II
SVP112 Survey Computing
SVT222 Survey Drafting
MAB199 Survey Mathematics I
MAB495 Survey Mathematics II
MAB795 Survey Mathematics III
SVP116 Survey Project Management
SVT225 Surveying
SVB001 Surveying & Mapping
SVB101 Surveying & Measuring
SVB306 Surveying I
SVP101 Surveying Practice
SVP216 Surveys for Government
PNB220 Systematic Anatomy
MSB320 Systematic Pathology
ISP200 Systems Analysis & Design
CSB211 Systems Arch & Op Systems
CSP211 Systems Architecture & Op Systems
CSB326 Systems Programming
EEB591 Systems Programming Languages
- T**
ACN178 Tax Planning
ACB344 Taxation & Professional Practice
ACB441 Taxation Honours
LWB403 Taxation Law
ACB340 Taxation Law & Practice
ACB343 Taxation of Business Entities
LWN019 Taxation of Business Entities

ACN177 Taxation Policy Honours
BEA004 Taxonomy
CMB136 Technical Writing
MNP309 Technological Innovation
ARB195 Technology I
ARB196 Technology II
EET460 Telecommunications
EET753 Testing & Commissioning Techniques
ISP100 The Computer System
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
ISN250 The Information Industries
ISB214 The Information Resource
MNB503 The Tourism Industry in Aust
BTN202 The Urban Environment & Behaviour II
BTN203 The Urban Environment & Behaviour II
BTN302 The Urban Landscape
NSB210 Theories of Nursing I
NSB211 Theories of Nursing II
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
PHB401 Thermal & Vacuum Physics
MET250 Thermodynamics
MEB250 Thermodynamics I
MEB251 Thermodynamics II
MEB650 Thermodynamics III
MET560 Thermofluids
CMN950 Thesis/Project
BGB565 Time Management
BGP434 Time Management I
BGP414 Time Management II
CHN701 Topics in Advanced Chemistry I
CHN801 Topics in Advanced Chemistry II
MAB906 Topics in Analysis
MSP127 Topics in Biotechnology
SVB634 Topics in Engineering Surveying
PHB620 Topics in Physics
LWB103 Torts
BTN305 Tourism & Recreation in Urban Design
LWN005 Trade Practices & Consumer Protect
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
BTN303 Transport & Movement Syst in Urb Des
MNB527 Transport Economics
CEB512 Transport Engineering I
CEB410 Transport Engineering I
CEB511 Transport Engineering II
BTB563 Transport Planning
LPP557 Transport Planning
CEP218 Transportation Engineering
PHB286 Treatment Planning I
PHB386 Treatment Planning II
MEB463 Tribology
LWN016 Tribunals & Enquiries

■ U

PHN155 U/sonic Exam in Obstetrics/Gynaecol
PHN354 U/sonic Exam of Head
PHN156 Ultrasonic Exam of the Abdomen
PHN153 Ultrasound Equipment I
PHN351 Ultrasound Equipment II
PHN352 Ultrasound Examination in Cardiology
PHN353 Ultrasound in Medical Diagnosis
PHN158 Ultrasound Pathology
MSN158 Ultrasound Pathology
EEP102 Unix & C for Engineering
BTN404 Urb Des Feasibilities & Management
BTN403 Urb Des Guidelines & Develop Contrl
BTN501 Urb Des Research Dissertation Elect
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 I
BTN702 Urban Design Research Electives II
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
LPB444 Urban Planning III
LPP416 Urban Policy Implementation
LPP407 Urban Policy Processes
LPP322 Urban Structure
CEP310 Urban Transportation Planning
PNA850 Urological Physiology & Anatomy
LPP506 User & Character Design Studies

■ V

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
CMB592 Video Documentary Editing
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

W

CEP277 Waste Management
CEP172 Water Quality Engineering
PHB310 Wave Theory & A C Circuits
ARP503 Workplace Design
MET175 Workshop (Mechanical) IA
MET475 Workshop (Mechanical) IIIA
CMB014 Writing & Communication Theory
CMB116 Writing for Designers I
ARB189 Writing for Designers I
CMB117 Writing for Designers II
ARB190 Writing for Designers II



SUBJECT SYNOPSES

Northern Campuses

This section provides synopses of the subjects offered on the University's Northern Campuses. The synopses are presented in alpha-numeric order according to their codes and provide the following information:

- code;
- subject title;
- brief outline of content of subject;
- prerequisite subject(s) where applicable;
- credit point value (first numeral);
- class contact in hours per week where applicable (second numeral).

Subject coding and numbering

The format of the coding system is as follows:

- (i) two letters to represent discipline areas. A list of discipline areas appears below.
- (ii) first numeral represents the level of course in which the subject is normally offered.
 - 1 Associate Diploma
 - 2 Diploma
 - 3 Degree
 - 4 Graduate Diploma
 - 5 Masters Degree
- (iii) for some teacher education courses the second numeral represents course strands as follows:
 - 0, 1, 2 Curriculum and Discipline Studies
 - 3 Studies in Education
 - 6 Studies in the Teaching/Learning Process
 - 7 Specialist Studies
 - 8 Liberal Studies
 - 9 Field Studies
- (iv) the remaining numerals provide each subject with a unique number in the series 00-99.

Discipline Areas

AB	Aboriginal Studies	CO	Computing
AC	Accounting	CR	Community Recreation
AD	Administration and Management	CS	Consumer Studies
AE	Aesthetics	CT	Clothing and Textiles
AR	Art	CU	Curriculum Studies
AS	Asian Studies	CW	Community Welfare
BC	Biochemistry	DA	Dance
BI	Biology	DP	Drawing and Painting
BM	Business Machines	DR	Drama
CC	Child Care	DS	Design Studies
CE	Ceramics	DY	Developmental Psychology
CH	Chemistry	EC	Economics
CL	Counselling	ED	Education

EE	Early Childhood Studies	MW	Metalwork
EN	English	NS	Nursing Studies
EP	Educational Psychology	NU	Nutrition
ER	Earth Science	OE	Outdoor Education
FD	Foods	PE	Physical Education
FI	Film	PG	Photography
FS	Food Science	PH	Physics
GE	Geography	PI	Philosophy
GR	Graphics	PL	Physiology
HE	Health	PO	Political Studies
HI	History	PT	Practice Teaching
HO	Housing	PY	Psychology
HP	Humanistic Psychology	RC	Residential Care
HS	Home Economics	RE	Reading Studies
HW	Health and Welfare Studies	RM	Recreation Management
IA	Industrial Arts	RP	Court and Parliamentary Reporting
IR	Industrial Relations	RS	Resource Studies
JE	Jewellery	SB	School Studies
LA	Language Studies	SC	Science
LB	Library Studies	SE	Special Education
LE	Leatherwork	SK	Secretarial Skills
LI	Literature Studies	SP	Social Psychology
LS	Liberal Studies	SR	Sport Studies
LW	Law	SS	Social Studies
MA	Mathematics	ST	Statistics
MB	Microbiology	SU	Sculpture
MC	Multicultural Studies	SY	Sociology
ME	Media Studies	TE	Textiles
MG	Management	TS	Teaching Skills
MK	Marketing	TX	Textiles Science
ML	Modern Language and Culture Studies	WS	Women's Studies
MU	Music	WW	Woodwork

■ AC1002 ACCOUNTING PRINCIPLES

Introduction to accounting; basic assumptions inherent in accounting; recording and reporting to management on assets, liabilities, revenue and expense; short and long-term concept; overview of managerial accounting concepts and techniques.

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3013 ACCOUNTING

Accounting concepts and methods; recording business transactions in basic books of account; measurement of capital and income in business enterprises; preparation of financial statements; accounting for inventory; accounting for fixed assets; control of cash and receivables; single entry accounting; non-trading concerns; analysis and interpretation of financial reports.

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3014 FINANCIAL ACCOUNTING 1

Accounting entries appropriate to differing forms of business organisation, partnerships, branches and companies; fund statements, extended payment transactions, revenue recognition, relevant accounting standards.

Prerequisite: AC3013

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3015 BUSINESS FINANCE 1

Establishment of a conceptual and institutional framework for analysis of corporate financial decision making and behaviour of capital markets.

Prerequisites: AC3013, EC3028 and MK3032

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3016 FINANCIAL ACCOUNTING 2

Accounting for companies to comply with legal requirements; professional accounting standards and exposure drafts; company taxation; liquidations; preparation of consolidated accounts and equity accounting.

Prerequisite: AC3014

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3017 MANAGERIAL ACCOUNTING 1

Accounting information for management planning and control, budgeting, cost accounting concepts, job costing and process costing techniques; direct and absorption costing.

Prerequisite: AC3013

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3018 AUDITING

Auditing concepts and procedures; review and evaluation of internal control systems; audit of computer-based systems; impact of computer or internal control; sample evidence, statistical sampling applied to auditing populations; audit reports; recommendations of professional bodies; legal and ethical environment of auditors; duties, rights and liabilities of auditors.

Prerequisites: AC3014, CO3104 and MK3032

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3019 BUSINESS FINANCE 2

Analysis of the investment, financing and dividend decisions of the firm. Specific topics include capital budgeting, discounting techniques of investment analysis and capital structure issues.

Prerequisite: AC3015

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3023 FINANCIAL ACCOUNTING 3

Objectives and methodology of financial accounting theory; concepts of and valuation/measurement methods for assets, profit, capital maintenance, equities and liabilities; accounting for changing prices; contemporary developments in accounting theory.

Prerequisites: AC3014, AC3015 and AC3025

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3024 BUSINESS FINANCE 3

Continuation of investment analysis and financial management sections of AC3015 and AC3019; relationship between financial policy and security prices; investigation into behaviour of security prices and capital markets to draw together accounting studies completed.

Prerequisite: AC3019

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3025 MANAGERIAL ACCOUNTING 2

Design, implementation and users of cost accounting systems to provide accounting information required by managers for recurring decisions with reference to manufacturing organisations.

Prerequisites: AC3015 and AC3017

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3027 COMPUTER APPLICATIONS IN PUBLIC PRACTICE 1

Concepts and audit implications of computer-based systems: hardware, systems software, applications software, database systems, data communications, centralised vs distributed systems, networks. Systems development and systems controls: analysis of systems development methods, documentation, control objectives, types of control. Audit procedures and techniques relevant to EDP-based systems; exposure to commonly used packages.

Prerequisite: AC3026

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3028 COMPUTER APPLICATIONS IN PUBLIC PRACTICE 2

Reinforcement and further development of such topics as: income, allowable deductions, trusts, companies, partnerships, primary production and provisional tax; use of computer packages in tax; preparation of returns via computer systems; application of programming skills in developing small packages and modifying existing packages.

Prerequisites: AC3027 and LW3015

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3029 INTERNATIONAL FINANCE

Introduction – the multinational firm; the international monetary system; fundamental exchange rate theories; forecasting exchange rates; international debt markets; international equity markets; international cost of capital and financial structures; the foreign investment decision and political risk; international capital budgeting decisions; measuring foreign exchange risk exposure; managing foreign exchange risk; international taxation considerations.

Prerequisite: AC3015

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3032 ACCOUNTING INFORMATION SYSTEMS 1

Reinforcement of accounting concepts through the study of financial modelling in accounting cases; use of electronic spreadsheet packages to implement

computerised accounting applications; introduction to Accounting Information Systems (AIS) and accounting data design.

Co-requisite: AC3013

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3033 ACCOUNTING INFORMATION SYSTEMS 2

Reinforcement of further accounting concepts through the study of, and 'hands-on' experience with, a popular accounting package; advanced use of fourth generation database systems and spreadsheets to implement current accounting applications; advanced study of Accounting Information Systems and accounting data design; data retrieval and manipulation techniques of share price and company data files for business finance projects.

Prerequisite: AC3013, AC3032 or CO3104

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3034 ACCOUNTING & CONTROL SYSTEMS

Accounting packages, systems and applications executing on various hardware platforms; introduction to the management control framework; application of the controls in accounting application software and systems; controls necessary in the accounting systems conversion process.

Credit Points: 12 **Contact Hours:** 4 per week

■ AC3040 INTRODUCTORY ACCOUNTING

Overview of accounting; double entry; recording, classifying and reporting business transactions; accounting for cash; accounting for receivables and payables; accounting for inventories; accounting for non-current assets; accounting for payroll; single entry.

Credit Points: 10 **Contact Hours:** 5 per week

■ AC3041 ACCOUNTING 1

Accounting for partnerships; accounting for companies; accounting for non-current liabilities; statement of sources and applications of funds; company financial statements; auditing; analysis and interpretation of financial statements.

Credit Points: 10 **Contact Hours:** 5 per week

■ AC3042 BUSINESS MANAGEMENT

Management theory; business planning and control; business forecasting; marketing management; production management; personnel management and control; financial planning and control: an overview.

Credit Points: 10 **Contact Hours:** 3 per week

■ AC3043 COMPUTERS IN ACCOUNTING EDUCATION 1

Business information systems concepts; accounting applications; controls and accounting; systems software-DOS; application software-accounting package; application software-spreadsheet package; and their applicability to business education.

Credit Points: 10 **Contact Hours:** 4 per week

■ AC3044 MANAGEMENT ACCOUNTING

The nature of management accounting; cost concepts; budgeting and standards for control; cost profit volume analysis; job and process costing; standard costs; direct and absorption costing; and their applicability to business education.

Credit Points: 10 **Contact Hours:** 3 per week

■ AC3045 SMALL BUSINESS ENTERPRISE

Small business in terms of its entrepreneurial qualities, management, planning, financing; its legal

and economic environment, and its growth and development.

Credit Points: 10 **Contact Hours:** 3 per week

■ AC3046 COMPUTERS IN ACCOUNTING EDUCATION 2

System design, implementation and running a computer installation; data base query languages; the Unix operating system; business graphics; expert systems; communications: computer networks; and their applicability to business education.

Prerequisite: AC3040 or AC3043

Credit Points: 10 **Contact Hours:** 4 per week

■ AC3047 ACCOUNTING 2

Tax effect accounting; reorganisation of capital; liquidations; accounting for leases; accounting ethics and social responsibility; financial mathematics; project evaluation; the capital market; lease financing. Incompatible with AC3049 and AC3050.

Prerequisite: AC3041

Credit Points: 10 **Contact Hours:** 4 per week

■ AC3048 BUSINESS ORGANISATION

The interrelationship of key characteristics of the business organisation: people, strategies, structures, technology and business environment.

Prerequisite: AC3042

Credit Points: 10 **Contact Hours:** 3 per week

■ AC3049 CORPORATE FINANCE

The nature of corporate finance; financial mathematics; project evaluation; short term asset management; the capital market; short and long term finance; dividend policy; and relevant computer applications. Incompatible with AC3047

Prerequisite: AC3040

Credit Points: 10 **Contact Hours:** 4 per week

■ AC3050 FINANCIAL ACCOUNTING

Tax effect accounting; reorganisation of capital; liquidations; amalgamations; accounting for leases, consolidations, accounting ethics and social responsibility; computer applications. Incompatible with AC3047.

Prerequisite: AC3040

Credit Points: 10 **Contact Hours:** 4 per week

■ AC3701 COMPANY ACCOUNTING

Accounting procedures and records required on formation of a company; procedures for alteration of capital structure and for liquidations, amalgamations and consolidations of companies; professional and legal requirements of accounting reporting.

Prerequisite: Tertiary studies in accounting or relevant teaching experience

Credit Points: 12 **Contact Hours:** 3 per week

■ AC4020 PROFESSIONAL YEAR – ACCOUNTS

Analysis of current accounting standards; development of the ability to solve complex practical accounting issues (This subject is a compulsory component of the Chartered Accountants Professional Year).

Prerequisite: AC4026

Credit Points: 24 **Contact Hours:** 6 per week

■ AC4021 PROFESSIONAL YEAR – AUDIT & E.D.P.

An examination of auditing concepts; exposure to recent auditing research; this subject is an extension of undergraduate auditing studies and is a compulsory

component of the Chartered Accountants Professional Year.

Prerequisite: AC4026

Credit Points: 12 **Contact Hours:** 4 per week

■ AC4022 PROFESSIONAL YEAR – TAXATION

Advanced taxation planning; examination of different tax structures; alienation of income; implications of anti-avoidance legislation; objections and appeals against assessments (This subject is a compulsory component of the Chartered Accountants Professional Year).

Prerequisite: AC4024

Credit Points: 24 **Contact Hours:** 6 per week

■ AC4023 COMPUTERS IN TAXATION

Further development of such topics as: superannuation, eligible termination payments, Fringe Benefit Tax, provisional tax; the application of financial modelling and database packages; exposure to packaged taxation software, taxation return preparation software; export system concepts and the application of expert systems in taxation.

Credit Points: 12 **Contact Hours:** 4 per week

■ AC4024 TAXATION PLANNING

Operation of international tax agreements; revenue law other than income tax law; solving complex taxation problems; Sales Tax legislation; Stamp Duty legislation.

Credit Points: 12 **Contact Hours:** 4 per week

■ AC4025 COMPUTER APPLICATIONS IN ACCOUNTING

Control aspects of systems development and design; analysis of system development methods, documentation, control objectives, types of control; audit concepts, exposure to audit software; hardware and software selection process; exposure to accounts and word processing packages.

Credit Points: 12 **Contact Hours:** 4 per week

■ AC4026 ACCOUNTING PRACTICE

Conceptual and technical knowledge of the practice of management accounting including: cost accounting methods and systems; an introduction to micro computer modelling packages and their application to management accounting practice.

Credit Points: 12 **Contact Hours:** 4 per week

■ AC4027 ADVANCED FINANCIAL MANAGEMENT

Utility theory; capital asset pricing model; option pricing theory; Roll's critique of capital asset pricing model; the futures market; money and banking in international markets.

Credit Points: 12 **Contact Hours:** 4 per week

■ AC4030 ADMINISTRATIVE ACCOUNTING

Theoretical concepts underlying accounting information; basic accounting procedures; internal control systems; bank reconciliation; analysis and interpretation of financial statements; external reporting issues; understanding annual reports; cost-volume-profit analysis; preparation of budgets; analysis of budget variances.

Credit Points: 12 **Contact Hours:** 4 per week

■ AD1004 INTRODUCTION TO MANAGEMENT

Examination of basic management skills and their application in the workplace.

Credit Points: 12 **Contact Hours:** 4 per week

■ AD1005 COMMUNICATION

Principles of effective communication; techniques of oral and written communication; reading and listening to gain information; interviewing, report writing; preparing documentation and manuals.

Credit Points: 12 **Contact Hours:** 4 per week

■ AD1008 WRITTEN ENGLISH

The appreciation and study of correct English writing style in the business profession; grammar, punctuation, spelling, usage and composition.

Credit Points: 12 **Contact Hours:** 4 per week

■ AD1009 WRITTEN & SPOKEN ENGLISH

The development of the written and spoken language skills used in business communication; report writing, letter writing, speech writing, intra-office communication; presentational speaking, interviewing and meeting procedure.

Credit Points: 12 **Contact Hours:** 4 per week

■ AD3025 OFFICE TECHNOLOGY 1

The concepts and applications of office automation and their relevance to the school curriculum; workflow in both traditional and automated office systems; the components of office systems and how these components interrelate.

Credit Points: 10 **Contact Hours:** 3 per week

■ AD3026 OFFICE SKILLS

Integrated office assignments of an increasingly complex nature involving the application of advanced typing and word processing principles and their relevance to the school curriculum; fostering initiative and problem-solving skills related to the production of business correspondence, documents and form design.

Credit Points: 10 **Contact Hours:** 4 per week

■ AD3027 BUSINESS COMMUNICATIONS

Knowledge and skills associated with all forms of office communication and their relevance to the school curriculum; verbal, non-verbal, written, electronic and visual communications.

Credit Points: 10 **Contact Hours:** 3 per week

■ AD3028 RECORDS MANAGEMENT

The scope and relevance of information and records management in business organisations, including paper-based as well as electronic information systems; and their relevance to the school curriculum.

Credit Points: 10 **Contact Hours:** 3 per week

■ AD3029 EXECUTIVE SECRETARIAL FUNCTION

Organisation of and preparation for meetings, business functions, and conferences; travel arrangements, initiating correspondence, conducting interviews, public relations; and their relevance to the school curriculum.

Prerequisite: AD3027

Credit Points: 10 **Contact Hours:** 3 per week

■ AD3030 OFFICE TECHNOLOGY 2

Applications of office automation in a business organisation and their relevance to the school curriculum; evaluation and description of the impact that office automation has on that organisation and the people who work there.

Prerequisite: AD3025

Credit Points: 10 **Contact Hours:** 3 per week

■ AD3031 OFFICE TRANSCRIPTION A

Progressive development of transcription skills to an advanced level; dictation material consisting of a

wide range of business correspondence including technical, legal and medical.

Credit Points: 10 **Contact Hours:** 4 per week

■ AD3032 OFFICE TRANSCRIPTION B

Progressive development of audio transcription skills to an advanced level; transcription material consisting of a wide range of business correspondence including technical, legal and medical.

Credit Points: 10 **Contact Hours:** 4 per week

■ AD3033 SUPERVISION & ADMINISTRATION

Supervision procedures; policy and procedures manuals; work measurement; creating the work environment; forms management; controlling administrative operations.

Prerequisites: AD3025 and AD3027

Credit Points: 10 **Contact Hours:** 3 per week

■ AD3034 OFFICE MANAGEMENT

The role of administrative management; policy making procedures involving administrative operations, communication management and information management.

Prerequisites: AD3030 and AD3033

Credit Points: 10 **Contact Hours:** 3 per week

■ AD3035 FIELD STUDY PROJECT

An individual research project investigating an approved aspect of office administration in a local business organisation.

Prerequisites: AD3030 and AD3033

Credit Points: 10 **Contact Hours:** 2 per week

■ AD3040 ORGANISATIONAL COMMUNICATION I

An introduction to the basic concepts of organisational communication – effective business speaking and writing; organisational behaviour; and interpersonal communication.

Credit Points: 12 **Contact Hours:** 4 per week

■ AD3041 ORGANISATIONAL COMMUNICATION 2

Continuation of AD3040.

Prerequisites: AD3040 and AD3050

Credit Points: 12 **Contact Hours:** 4 per week

■ AD3042 SPOKEN COMMUNICATION

Development of successful verbal communication in contemporary business and professional situations.

Co-requisite: AD3040

Credit Points: 12 **Contact Hours:** 4 per week

■ AD3043 GROUP COMMUNICATION

Development of an in-depth understanding of the theoretical concepts of small group interaction; interviews and group problem-solving.

Prerequisites: AD3040 and AD3042

Credit Points: 12 **Contact Hours:** 4 per week

■ AD3044 WRITTEN COMMUNICATION

Development of proficiency in writing for a variety of business and professional contexts; the use of desktop publishing and other aids to produce effective written communications; the impact of the 'electronic office' on written communications.

Credit Points: 12 **Contact Hours:** 4 per week

■ AD3045 MEDIA MANAGEMENT

The use of the print and broadcasting media to improve organisational communications; instruction in basic news writing and other media practices; the

development of in-house and external media programs.

Prerequisite: AD3040

Credit Points: 12 **Contact Hours:** 4 per week

■ AD3046 TRAINING & DEVELOPMENT

The development of skills and concepts used in training and development; introductory consultancy skills; training needs analysis; processes and methods; training education.

Prerequisite: AD3047

Credit Points: 12 **Contact Hours:** 4 per week

■ AD3047 MANAGEMENT PROCESSES

Basic management skills; management roles, and organisation structure and design; human resource management; industrial relations and administrative reform.

Co/Prerequisite: AD3048

Credit Points: 12 **Contact Hours:** 4 per week

■ AD3048 MANAGEMENT & INDUSTRIAL RELATIONS

The development of modern management and industrial relations; contemporary managerial processes in the organisation and in society; relations between managers and the state; industrial regulation; the control of work, and representative organisations; unions and workers; strategic management; management task planning and change; leadership and motivation; control and evaluation; organisational power and politics.

Credit Points: 12 **Contact Hours:** 4 per week

■ AD3049 AUSTRALIAN GOVERNMENT

An introduction to Government in Australia; an examination of processes and institutions; Commonwealth Parliament, the electoral system, political parties and pressure groups; Australian Constitution and the judiciary; public policy formulation; the Public Service.

Credit Points: 12 **Contact Hours:** 4 per week

■ AD3050 PERSPECTIVES ON ORGANISATION & MANAGEMENT

Classic and contemporary views of organisation work and management; concepts and skills necessary for analysing and understanding organisations and organisational processes; mechanistic stereotypes of organisations; organic views of organisations, organisations as political systems; organisational analysis.

Prerequisite: AD3047

Credit Points: 12 **Contact Hours:** 4 per week

■ AD3051 MANAGEMENT POLICY & STRATEGY

Issues of management policy and strategy in both private and public sectors, including organisational context, techniques and processes involved in the formulation of policy and strategy, the problems of moving from advocacy to implementation and evaluation and review.

Prerequisites: AD3047 and AD3050

Credit Points: 12 **Contact Hours:** 4 per week

■ AD3052 STRATEGIC HUMAN RESOURCE MANAGEMENT

The role of human resource/personnel management in the strategic management of both private and public sector organisations; theory and practice including human resource planning, recruitment and selection, induction and training, management and organisation development, career planning and development,

motivation and job satisfaction, and performance evaluation.

Prerequisite: AD3048

Credit Points: 12 **Contact Hours:** 4 per week

■ **AD3053 PROFESSIONAL COMMUNICATION**

The communication process; listening and non-verbal communication; style in technical writing, oral and audiovisual presentations. Interviews, negotiation skills, small group communication, meeting, writing instruction manuals and technical papers.

Credit Points: 12 **Contact Hours:** 3 per week

■ **AD3054 INTERNATIONAL OPERATIONS**

Introduction; structure – purpose of structure, control and coordination; logistics – what is business logistics, implications for coordination and control; control – accounting, information and planning; review and technological trends.

Prerequisite: AD3048

Credit Points: 12 **Contact Hours:** 4 per week

■ **AD3055 INTERNATIONAL HUMAN RESOURCE MANAGEMENT**

Cultural differentiation; organisational structure and cultural differential; communicating across cultural boundaries – dynamics, skills; multicultural teams; cross-cultural leadership, motivation and decision-making; negotiating with foreigners; cross-cultural transitions; comparative human resource management; comparative employee relations; doing business in South East Asia.

Prerequisites: AD3040 and AD3048

Credit Points: 12 **Contact Hours:** 4 per week

■ **AD4010 BUSINESS COMMUNICATION**

The development of strategic communication skills for application within the contemporary business and professional organisation: listening and non-defensive communication; negotiation, interviewing and assertion; group communication processes and meeting procedure; oral reporting; proposal and report writing; the study of managerial communication involving organisational climate, behaviour and politics.

Credit Points: 12 **Contact Hours:** 3 per week

■ **AD4011 ARTS ADMINISTRATION & SOCIETY**

The conceptual, historical and philosophical foundations of the arts and arts administration in Australia; the role of arts organisations in meeting the cultural needs of society and the individual; organisational structures and planning processes for arts organisations; facilities for the arts; policy-making in the arts; government and the arts; community arts; current research and practices in arts administration.

Credit Points: 12 **Contact Hours:** 5 per week

■ **AD4012 THE ARTS INDUSTRY**

The framework of the arts as an industry; contracts and artists' rights; personnel and industrial relations; marketing the arts; law and the arts; tickets and subscriptions; government funding and private sponsorship; communications and use of the media; management case studies; operational procedures within arts organisations.

Prerequisite: AD4011

Credit Points: 12 **Contact Hours:** 5 per week

■ **AD4013 STRATEGIC MANAGEMENT THOUGHT & PRACTICE 1**

Philosophy and development of management; leadership; managerial roles and skills; decision making and

problem solving; organisational design; organisational change; organisational analysis using metaphors; organisational dynamics; creativity and control; management of human resources; strategic thinking. Incompatible with AD3048

Credit Points: 12 **Contact Hours:** 4 per week

■ **AD4014 STRATEGIC MANAGEMENT THOUGHT & PRACTICE 2**

Continuation of AD4013.

Credit Points: 12 **Contact Hours:** 4 per week

■ **AD4015 ISSUES IN OFFICE ADMINISTRATION**

Issues in office administration (roles in the workplace; interpersonal relations; organisational culture and climate) and development of practical skills within an appropriate learning framework to deal with these issues.

Credit Points: 12 **Contact Hours:** 4 per week

■ **AE3000 THE CREATIVE PROCESS**

The aesthetic dimension of everyday life; exploration of the personal significance of creative acts; theories of creativity and the dichotomy between the commonality of art and the artist as a special person; investigation of the interdependence of idea and form; independent practical study.

Credit Points: 10 **Contact Hours:** 3 per week

■ **AR2040 ART & MUSIC EDUCATION**

The arts in the school curriculum; visual acuity; expressive potentials of elements and media; appreciation of artists' works; musical literacy; practical work with classroom instruments; classroom singing; music as an impressive art; planning a teaching/learning sequence of art and music activities.

Credit Points: 12 **Contact Hours:** 6 per week

■ **AR2041 ART EDUCATION**

Perspectives on art education; children's artistic development; planning an art program; approaches used in the teaching of art; evaluation of learning in art.

Credit Points: 6 **Contact Hours:** 2 per week

■ **AR2042 THE WORLD OF THE ARTS**

Children's literature and drama; music and movement; frameworks for listening and moving, music and dance relationships, program planning, visual arts.

Credit Points: 8 **Contact Hours:** 3 per week

■ **AR2800 TWENTIETH CENTURY ARTS & CULTURE**

The forces which shaped arts in this century; the nature and intentions of twentieth-century art forms; the extent to which the arts share similar values and characteristics; the role of the arts in modern society.

Credit Points: 5 **Contact Hours:** 2 per week

■ **AR2803 UNDERSTANDING ART**

Practical and theoretical studies in the history and meaning of art and design, using drawing and design exercises as a personal means of coming to terms with the complexities of modern art.

Credit Points: 5 **Contact Hours:** 2 per week

■ **AR2805 EXPRESSIVE ARTS & EARLY CHILDHOOD**

Development of individual skills in art, music and drama suitable for young children; children's theatre.

Credit Points: 8 **Contact Hours:** 3 per week

■ **AR3005 ARTS IN SOCIETY**

Images of the artist in various cultures; artistic modes (music, dance, drama, visual arts); functions of the

arts (ritual, celebration, revolt); the role and place of the arts in contemporary Australian society.

Credit Points: 10 **Contact Hours:** 3 per week

■ AR3006 SIGNS & MEANINGS

Concepts of the sign advanced by Saussure and Peirce; how signs are organised into codes or rule-governed systems; how these systems depend on agreement amongst their users and how they rest upon a shared cultural background; how signs interact with the cultural and personal experience of the user (Barthes' notions of connotation, myth and symbol; Jacobson's metaphor/metonymy dichotomy); the function of ideology particularly in relation to the ideas advanced by Raymond Williams and Barthes.

Credit Points: 10 **Contact Hours:** 3 per week

■ AR3016 INDEPENDENT STUDY: VISUAL ARTS

Students are required to design and carry through a major program on their own initiative following negotiation and consultation with lecturing staff.

Credit Points: 20

■ AR3017 PROFESSIONAL STUDIES

Studio workshop management; business principles; legal principles; promotion and marketing.

Credit Points: 10 **Contact Hours:** 3 per week

■ AR3018 THE MAKING OF MODERNISM

The birth of modern art from French Impressionism to the eve of the Second World War; the major movements and their theoretical underpinnings.

Credit Points: 10 **Contact Hours:** 4 per week

■ AR3019 EUROPEAN & AMERICAN ART

Major developments in the visual arts since 1945 with a particular examination of post-modernism; the role of the artist in contemporary society; the role of the media/art critic in shaping contemporary art practice.

Prerequisite: AR3018

Credit Points: 10 **Contact Hours:** 4 per week

■ AR3020 CURRENT DEBATES ON THE NATURE OF ART

An examination of the theoretical debates and their visual manifestations in contemporary Australia and overseas.

Prerequisite: AR3019

Credit Points: 10 **Contact Hours:** 4 per week

■ AR3021 HISTORY OF AUSTRALIAN ART

Development of Australian art since its human settlement 40,000 years ago; the visual arts since European settlement, contemporary Western and Aboriginal art.

Prerequisite: AR3019

Credit Points: 10 **Contact Hours:** 4 per week

■ AR3022 PRACTICUM 1

Four weeks work experience in visual arts related locations such as public and commercial galleries, conservation, State Library, Queensland Museum.

Credit Points: 10

■ AR3023 PRACTICUM 2

Shared responsibility by graduating students for all aspects of their graduation exhibition.

Credit Points: 10

■ AR3024 RESEARCH METHODS SEMINAR

Training in the research and writing of a theoretical/historical dissertation. Compulsory elective for students intending to undertake Honours Studies.

Credit Points: 20 **Contact Hours:** 15 per week

■ AR3025 RESEARCH PROJECT

Students undertake a substantial piece of supervised research after academic advisement. In some cases this might include practical work and associated seminars.

Credit Points: 80

■ AR3028 FOUNDATION ART STUDIES 1

Students will be exposed to a wide variety of experiences – lectures, seminars, tutorials, discussions, audiovisual presentations, performances, field trips, gallery visits and studio practice, in which they undertake a number of individual and group activities. These activities will act as departure points for the investigation of personal concepts. Students will be given the opportunity to select whatever medium or media they deem appropriate to the solution of problems inherent in the realisation of these concepts as art forms.

Credit Points: 20 **Contact Hours:** 12 per week

■ AR3029 ADVANCED ART STUDIES 2

Students pursue their chosen area of artistic inquiry, and subject this inquiry to analysis, to critical comparison, and to an assessment of the values which have arisen or been developed in the course of artistic production.

Prerequisite: AR3028, AR3031 and AR3032

Credit Points: 10 **Contact Hours:** 6 per week

■ AR3031 FOUNDATION ART STUDIES 2

Students submit a proposed outline of the art forms they wish to undertake, in consultation with an appropriate supervisor. These proposals will be formalised into written agreements which will include: a description of the work; the proposed duration of its undertaking; the criteria for its assessment.

Credit Points: 20 **Contact Hours:** 12 per week

■ AR3032 ADVANCED ART STUDIES 1

Students select the media areas in which they intend to work, and develop a program of practical activity in consultation with staff. Gallery visits, studio talks etc. form a significant part of this subject.

Prerequisites: AR3028 and AR3031

Credit Points: 10 **Contact Hours:** 16 per week

■ AR3033 ART CURRICULUM, DESIGN & DEVELOPMENT

Consideration of Art curriculum provisions at conceptual, contextual, procedural/transactional levels using topics selected from the following domains: culture/society; subject knowledge; teaching strategies; the child learner; negotiation and examination of these topics in terms of curriculum theory, design and development.

Prerequisite: CU3040

Credit Points: 12 **Contact Hours:** 3 per week

■ AR3702 ADVANCED THREE-DIMENSIONAL STUDIES

The role of drawing and the preparation of three-dimensional design both as a point of reference, stimuli or source, and as working drawings; work with a variety of media; development of programs suitable for implementation in the school situation.

Prerequisite: Studies in art at Diploma of Teaching level or equivalent experience

Credit Points: 12 **Contact Hours:** 3 per week

■ AR3803 VISUAL AWARENESS & COMMUNICATION

Psychological reactions to being visually aware; classifying explanatory diagrams/pictures as educative symbols; aesthetic response; interpretation of

personal vision; strategies for designing visual messages; analysis, visual exploration and interpretation of painting, sculpture, advertising; the environment and the action and reaction of the viewer.

Credit Points: 12 **Contact Hours:** 3 per week

■ AR3804 HISTORY OF PAINTING & GRAPHICS

Painting and graphics in the seventeenth century: Italian Baroque, French Classicism, Flemish and Dutch painting. Painting and graphics in the eighteenth century: naturalism, landscape and cityscape painting on the Continent, English painting and graphics. Neo-Classicism and the beginnings of Romanticism.

Prerequisite: Studies in art at Diploma of Teaching level or equivalent experience

Credit Points: 12 **Contact Hours:** 3 per week

■ AR4007 UNDERSTANDING THE WORLD OF THE ARTS I

The nature of music; elements of music such as rhythm, melody, harmony and expression; graphic and traditional notation; performance using classroom instruments and voice; listening in order to gain an appreciation of music, its historical development and cultural significance. Art in the school curriculum; expressive potential of appropriate media for schools; appraisal of artists' works; sequencing of art objectives and activities.

Credit Points: 8 **Contact Hours:** 2 per week

■ AR4008 UNDERSTANDING THE WORLD OF THE ARTS 2

Objectives and evaluation in the arts; the structure of a program: investigation of syllabi, curriculum guides and the developmental stages of children in relation to visual education and music education; development of classroom music and art subjects.

Credit Points: 4 **Contact Hours:** 2 per week

■ AR4016 ART EDUCATION PROGRAM DESIGN & PRACTICE

Design and implementation of defensible art education programs at broad and specific school levels; examination of the learning outcomes of art activities, classroom practice and evaluation across all levels of schooling.

Prerequisite: CU4017

Credit Points: 12 **Contact Hours:** 3 per week

■ AR4017 APPLIED STUDY IN ART EDUCATION

Supervised individual academic investigation of existing, or innovative facets of art; art education or education displaying professional endeavour and/or reflection.

Credit Points: 12

■ AS3004 ASIAN CULTURAL STUDIES

'Traditional' Asian values and beliefs; impact of these values and beliefs on social structures, decision making, technological development; western colonialism, imperialism and neo-imperialism and their impact on Asian cultures; the emergence of contemporary Asian cultures.

Credit Points: 12 **Contact Hours:** 4 per week

■ AS3005 ASIAN POLITICAL ECONOMY

History and social development of Asia from economic and political perspectives; case studies of the economic and political development of certain Asian countries and regions; current political and economic issues in the Asian region, including their impact upon Australia; political and economic

theories and concepts and their application to Asia and its relationship to Australia.

Prerequisite: AS3004

Credit Points: 12 **Contact Hours:** 4 per week

■ AS3006 INTERNATIONAL BUSINESS STRATEGIES

Environmental context of international business; interaction with international home societies; business customs, protocol and values; methods of operation in Asian Pacific countries; trade policy issues; international agreements and conventions; organisation of international business; negotiation in the international business arena; the practice of international business negotiation; the future.

Prerequisite: AS3005

Credit Points: 12 **Contact Hours:** 4 per week

■ AS3007 INTERNATIONAL ENVIRONMENT OF BUSINESS

Field of international business, global trade and investment patterns; profile of Australian internationalisation in context of global trends; theories of international business; political/economic environment – industrial and developing countries; international trade infrastructure – trade agreements; legal environment – property, technology transfer; financial environment – balance of payments; labour environment – comparative labour relations; cultural environment; meaning of culture; future directions of international business.

Prerequisites: AS3004 and AS3005

Credit Points: 12 **Contact Hours:** 4 per week

■ BC3026 BIOCHEMISTRY

The meaning and function of intermediary metabolism; nucleic acids; vitamins and coenzymes; bioenergetics; carbohydrate metabolism; biological oxidation; lipid metabolism; regulation of carbohydrates and lipid metabolism; amino acid metabolism.

Prerequisite: CH3025

Credit Points: 9 **Contact Hours:** 5 per week

■ BI2803 AUSTRALIAN BIOLOGY

The theory of plate tectonics and the geological history of the Australian continent; theories of Gondwanan origins of Australian flora and fauna; the distinctive nature of Australian terrestrial vertebrate and insect fauna; Australian ecosystems; survival strategies of Australian animals and plants.

Credit Points: 10 **Contact Hours:** 4 per week

■ BI3012 PATTERNS OF LIFE

Three major themes within biology; evolution, ecology and systematics; the breadth of diversity of life; patterns of structure and function; the development of ecological and evolutionary theories.

Co-requisite: BI3013

Credit Points: 10 **Contact Hours:** 4 per week

■ BI3013 HUMAN PHYSIOLOGY

The basic concepts of cellular structure, function, reproduction; physiological systems and their function and structure; the fundamental concepts of biology.

Co-requisite: BI3012

Credit Points: 10 **Contact Hours:** 4 per week

■ BI3014 ECOLOGY

Theoretical principles of ecology at the levels of population, communities and ecosystems; terrestrial and freshwater ecosystems; field work.

Prerequisite: BI3012

Credit Points: 10 **Contact Hours:** 4 per week

■ BI3015 STRUCTURES & FUNCTIONS IN BIOLOGY

The principles of structure, physiology and behaviour in a range of different types of animals; the principles of plant structure and function; anatomy, photosynthesis, respiration, water relationships; the genetic basis of evolution.

Prerequisite: BI3012

Credit Points: 10 **Contact Hours:** 4 per week

■ BI3025 BIOLOGICAL SCIENCE

Basic concepts of cellular biology; haematology; circulatory system; lymphatic system; immunology; respiratory system; excretory system; sense organs; reproductive system; human population and food.

Credit Points: 10 **Contact Hours:** 4 per week

■ BI3702 AUSTRALIAN FAUNA

Uniqueness and diversity of Australian fauna; methods and resources for identification of fauna; adaptation; behaviour; conservation and economic considerations. Voluntary study school for external students.

Prerequisite: Science studies at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ BI3703 AUSTRALIAN FLORA

The major groups of Australian plants; origins, adaptation and radiation of Australian flora; plant ecosystems; biological, social and economic implications of plants and plant communities; techniques of cultivation and study of plants in the school environment. Incompatible with extensive tertiary studies in botany

Credit Points: 12 **Contact Hours:** 3 per week

■ BI3801 THE HUMAN SPECIES

Characteristics of the biological groups in which the human species is placed; variation within the human species; comparative animal behaviours; genetics; theories of the presence and distribution of the human species; development of the theory of evolution; fossils; natural environment and ecological principles; human population growth; tools and technology; impact of the human species; environmental strategies and options; application to teaching. Incompatible with tertiary anthropology studies

Credit Points: 12 **Contact Hours:** 3 per week

■ CE2800 ELEMENTARY CERAMICS

The nature of clay; elements and principles of design in clay; simple, traditional and contemporary methods of applying decoration to clay surfaces; firing levels and techniques.

Credit Points: 5 **Contact Hours:** 2 per week

■ CE2801 CLAY STUDIES 1

The nature of clay and glazes; practical application of various ceramic techniques and decorating styles; firing techniques; appreciation of ceramic history.

Credit Points: 8 **Contact Hours:** 3 per week

■ CE2802 CLAY STUDIES 2

Development of creativity through imagemaking in a ceramic context; practical application of low temperature techniques and firing styles; appreciation of ceramics in contemporary culture.

Credit Points: 8 **Contact Hours:** 3 per week

■ CE2805 CERAMICS 2

Builds on CE2800 and develops building and firing technique to stoneware temperatures. Further design work and theoretical studies.

Prerequisite: CE2800

Credit Points: 10 **Contact Hours:** 4 per week

■ CE3701 ADVANCED CERAMICS

The nature of clays suitable for various ceramic techniques and skills; exploration of creative starting points and ideas; firing techniques and procedures; applicable decorative/glazing techniques.

Prerequisite: Tertiary level work in ceramics

Credit Points: 12 **Contact Hours:** 3 per week

■ CE4002 CLAY MATERIALS 1

Develop ceramic knowledge, artistic concepts, and practical/technical skills; investigation of selected historical ceramic eras; understanding of the relationship between ceramics and the maker's culture; development of personal imagery and design.

Credit Points: 12 **Contact Hours:** 3 per week

■ CE4003 CLAY MATERIALS 2

Detailed specialisation in individually selected styles; emphasis on conceptual matters and imagery; expansion of ceramic knowledge and technical formats; investigation of contemporary trends, influences and issues in Australian ceramics.

Prerequisite: CE4002

Credit Points: 12 **Contact Hours:** 3 per week

■ CH3005 FOUNDATIONS OF CHEMISTRY

Consideration of the simplest methods and the fundamental ideas of chemistry in a way which stresses common substances and highlights aspects where chemistry has a significant role for people, science and society.

Co-requisite: CH3006

Credit Points: 10 **Contact Hours:** 4 per week

■ CH3006 GENERAL CHEMISTRY

Major theories related to the impact of chemistry on the everyday affairs of humankind; the importance of various substances and common processes to society; related chemical concepts, facts, terminology and conventions related to the content topics; water and aqueous solutions, reaction rates, bonding, acid-base properties, organic form and function.

Co-requisite: CH3005

Credit Points: 10 **Contact Hours:** 4 per week

■ CH3007 PRINCIPLES OF INORGANIC CHEMISTRY

States of matter; bonding; descriptive inorganic chemistry; coordination chemistry and electrochemistry.

Prerequisite: CH3006

Credit Points: 10 **Contact Hours:** 4 per week

■ CH3008 PRINCIPLES OF PHYSICAL CHEMISTRY

Atomic and molecular structure; kinetics; equilibrium; gases; liquids and solids; thermodynamics; surface chemistry.

Prerequisite: CH3006

Credit Points: 10 **Contact Hours:** 4 per week

■ CH3021 PRINCIPLES OF CHEMISTRY

Atomic theories, chemical bonding, water, pH; chemical reactions and energetics, overview of inorganic chemistry, properties of selected inorganic compounds.

Credit Points: 8 **Contact Hours:** 4 per week

■ CH3025 ORGANIC CHEMISTRY

The chemistry of carbon; covalent bonding; families of organic compounds, their properties and reactions; bio-molecules and polymers, carbohydrates, lipids, proteins, enzymes.

Credit Points: 10 **Contact Hours:** 4 per week

■ CL3001 FOUNDATIONS OF COUNSELLING

The nature of the counselling process and helping relationship; the theoretical bases of the major counselling approaches; counselling skills of the major approaches; ethical issues in counselling; counselling applied in particular situations.

Prerequisites: HW3006, PY3016 and PY3017

Credit Points: 10 **Contact Hours:** 3 per week

■ CL3702 COUNSELLING: A HELPING RELATIONSHIP

The nature of counselling; the teacher as counsellor; the ethics of counselling; alternative interventions; the role of self in the counselling process; building an empathic relationship; interpersonal skills; problem analysis and intervention within the framework of several counselling models; other counselling approaches. Students taking CL3702 externally should note that attendance at a four day study school during the Easter break is mandatory.

Prerequisite: Studies in interpersonal psychology at Diploma of Teaching level or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ CL3703 COUNSELLING: METHODS OF CHANGE

The major theoretical approaches to counselling applied to practical issues in the areas of nurture and care, peer support and community relations, assertion training, conflict management and negotiation and stress management; the empowerment of teachers in the skills of human relations and counselling through an analysis of counselling theories.

Prerequisite: CL3702 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ CL4000 INTERPERSONAL RELATIONSHIPS IN COUNSELLING

Overview of concepts related to interpersonal relationships; social perception and attribution theory; self concept and the circular process of social interaction; contemporary models of interpersonal communication; the emotions and their effects on communication; facilitating communication; interpersonal influence; the family and interpersonal relationships.

Credit Points: 10 **Contact Hours:** 3 per week

■ CL4001 THEORY & PRACTICE OF COUNSELLING 1

Overview of the counselling process; role of theory in counselling; 'micro-counselling' skills; philosophies in counselling; humanistic counselling; existential counselling.

Co-requisite: CL4002

Credit Points: 10 **Contact Hours:** 3 per week

■ CL4002 PRACTICUM 1

Skills appropriate for the initial phase of counselling; attending, active listening and responding skills; relationship building skills and exploration and goal setting. Conducted over a one week, intensive, full-time period, using a workshop format.

Co/Prerequisite: CL4000 and CL4001

Credit Points: 5

■ CL4003 COUNSELLING & HUMAN DEVELOPMENT

Major theoretical approaches to human development: age/stage perspective, life event and transition perspective, individual variability perspective; nature of research in developmental psychology; psychological transitions in the life-span; relevance of

developmental theories and concepts to personal development.

Prerequisite: CL4000 or CL4001

Credit Points: 10 **Contact Hours:** 3 per week

■ CL4004 THEORY & PRACTICE OF COUNSELLING 2

Development and diversity of cognitive-behavioural approaches to counselling; behavioural interviewing and assessment strategies; cognitive-behavioural intervention strategies; ethics and practicalities of cognitive-behavioural interventions; accountability and empirical methods.

Prerequisite: CL4001

Credit Points: 10 **Contact Hours:** 3 per week

■ CL4005 PRACTICUM 2

Advanced skill training workshops; supervised counselling experience involving work with clients; interaction of student and supervisor.

Co-requisite: CL4007

Prerequisite: CL4002

Credit Points: 5

■ CL4006 COUNSELLING: A SOCIOLOGICAL PERSPECTIVE

The nature of helping and the helping process; sociological conceptions of the individual; social control function of helping; medicalisation and professionalisation of helping; the effect of organisation on the helping process.

Prerequisite: CL4001

Credit Points: 10 **Contact Hours:** 3 per week

■ CL4007 THEORY & PRACTICE OF COUNSELLING 3

Historical development of psycho-analysis and analytic theory; psychodynamics in counselling practice; hypnosis and conscious phenomena in counselling; scientific credibility of psycho-analytic and analytic psychotherapy; neurosis and psychosis in counselling.

Co-requisite: CL4005

Prerequisite: CL4004

Credit Points: 10 **Contact Hours:** 3 per week

■ CL4011 COGNITIVE-BEHAVIOURAL COUNSELLING

Contemporary trends and issues in cognitive-behavioural counselling; influences of interpersonal psychotherapy, systems theory, strategic therapy and multimodal therapy on cognitive-behavioural counselling; applications of the cognitive-behavioural approach.

Prerequisite: CL4007

Credit Points: 5 **Contact Hours:** 1.5 per week

■ CL4012 CAREER GUIDANCE & COUNSELLING

Theoretical approaches to career guidance: developmental theories and opportunity structure theories; resources and information for career guidance; career education programs; independent research.

Credit Points: 5 **Contact Hours:** 1.5 per week

■ CL4013 FAMILY COUNSELLING

Self awareness in family counselling; formation and models of the family; family counselling techniques.

Prerequisite: CL4007

Credit Points: 5 **Contact Hours:** 1.5 per week

■ CL4014 PRACTICUM 3

Further supervision of counselling work with a specific emphasis on the student's work context and the development of a professional role.

Prerequisite: CL4005

Credit Points: 10

■ CL4015 INTERACTIONAL COUNSELLING

The interactional conceptualisation of counselling; models of interactional influence: placebo model, resocialisation model and contextual model; developing interactional skills; paradoxical interventions; interactional change strategies.

Prerequisite: CL4007

Credit Points: 5 **Contact Hours:** 1.5 per week

■ CL4016 GROUP COUNSELLING

The concept of group counselling; organisation of group counselling; leader and members' behaviour; group techniques; evaluation of group counselling; application of group counselling.

Prerequisite: CL4007

Credit Points: 5 **Contact Hours:** 1.5 per week

■ CL4017 THE COUNSELLOR & THE ORGANISATION

Helping organisations as bureaucracies; organisation's response to social change; stress within helping organisations; teamwork among professional helpers; counsellor roles.

Prerequisite: CL4001

Credit Points: 5 **Contact Hours:** 1.5 per week

■ CL4018 INDEPENDENT STUDY

Independent counselling-related studies under the supervision of a member of staff. Studies must be approved by the Course Coordinator.

Prerequisite: CL4007

Credit Points: 5 **Contact Hours:** 1.5 per week

■ CL4019 FAMILY COUNSELLING 2

Models of family counselling; relating theory to practice; stages of family counselling; use of teams in family counselling.

Prerequisite: CL4013

Credit Points: 5 **Contact Hours:** 1.5 per week

■ CO1025 INTRODUCTION TO COMPUTERS

Overview of computer applications in business; computer hardware and software; input and output devices; storage devices; business information systems; concepts of data processing; computers in society; introduction to microcomputers using application software packages.

Credit Points: 12 **Contact Hours:** 4 per week

■ CO1026 COMMERCIAL PROGRAMMING

Modular programming; structured design; introduction to COBOL programming; basic elements of COBOL, report generation, control breaks, tables, disk file processing.

Prerequisite: CO1035

Credit Points: 12 **Contact Hours:** 4 per week

■ CO1027 SYSTEMS ANALYSIS

Systems in business; overview of system analysis and design; system life cycle; tools and techniques of systems analysis; communication; file organisation and design.

Prerequisite: CO1025

Credit Points: 12 **Contact Hours:** 4 per week

■ CO1028 COMPUTER LANGUAGES

Advanced programming concepts and structures; further algorithm development; testing and debugging; inspection and walkthroughs; practical computer programming using appropriate languages.

Prerequisite: CO1025

Credit Points: 12 **Contact Hours:** 4 per week

■ CO1029 MICROCOMPUTERS: HARDWARE & APPLICATIONS

Overview of microcomputer systems; microprocessors; operating system functions on microcomputers; application packages and programming on microcomputers; evaluation and selection.

Prerequisites: CO1025 and CO1035

Credit Points: 12 **Contact Hours:** 4 per week

■ CO1030 COMPUTER NETWORKS

Concepts of data communications; communications hardware; distributed processing issues; online systems using networking; back-up, recovery and security; design considerations, queuing and system timing; local area networks.

Prerequisite: CO1025

Credit Points: 12 **Contact Hours:** 4 per week

■ CO1031 SOFTWARE DEVELOPMENT

Introduction to commercial software engineering; structured design, development and testing techniques; advanced COBOL programming; data base programming.

Prerequisite: CO1026

Credit Points: 12 **Contact Hours:** 4 per week

■ CO1032 DATABASE SYSTEMS 1

Overview of database management systems; relational model, relational algebra and normalisation; query languages including SQL; network and hierarchical models; database management; practical work involving database systems and query languages.

Prerequisite: CO1025

Credit Points: 12 **Contact Hours:** 4 per week

■ CO1033 DATABASE SYSTEMS 2

Analysis of organisations and their information needs; design, implementation, management and evaluation of an information system; fourth generation techniques in the development of information systems.

Prerequisite: CO1032

Credit Points: 12 **Contact Hours:** 4 per week

■ CO1034 PROJECT

Individual work related to an application of computers in business or other approved area.

Prerequisites: CO1027 and other subjects as required

Credit Points: 12

■ CO1035 SOFTWARE PRINCIPLES

Problem solving and the computer; design of algorithm; program design; basic algorithms; introduction to data structures; testing and debugging; documentation; practical experience using appropriate programming language.

Credit Points: 12 **Contact Hours:** 4 per week

■ CO1036 SYSTEMS DESIGN

Structured design techniques; tools and methods of design; large system construction and implementation; project management and control; implementation and maintenance issues; alternative design methodologies and strategies.

Prerequisite: CO1027

Credit Points: 12 **Contact Hours:** 4 per week

■ CO2039 PROBLEM SOLVING WITH COMPUTER GRAPHICS

Problem solving and design principles appropriate to generating graphic images; the syntax, data structures and control structures of a programming language suitable for the generation of computer graphics; writing programs to generate static computer graphics; spatial concepts; dynamic computer graphics; advanced programming.

Credit Points: 5 **Contact Hours:** 3 per week

■ CO2041 COMPUTING IN THE PRIMARY SCHOOL

Introduction to computers; programming and problem solving using LOGO; applications in the curriculum; general applications.

Credit Points: 6 **Contact Hours:** 2 per week

■ CO2802 PERSONAL COMPUTING

History of the development of the personal computer; computer terms; features of the personal computer; computer operation; software and programming.

Credit Points: 5 **Contact Hours:** 2 per week

■ CO2804 WRITING & COMPUTERS

Text editing; text formatting; form handling and printer commands; characteristics of word processing packages; interaction between word processing packages, data bases and spreadsheet programs; sociological and economic implications of the electronic processing of text; language generators.

Credit Points: 5 **Contact Hours:** 2 per week

■ CO2807 COMPUTER STUDIES 1

History of computing and computing devices; strategies for problem solving (algorithm, design, flow-charting); computer-aided instruction; word processing.

Credit Points: 8 **Contact Hours:** 3 per week

■ CO2808 COMPUTER STUDIES 2

Computer applications; data base; spreadsheet; graphics; word processing; authoring software packages are used in various student initiated projects.

Prerequisite: CO2807

Credit Points: 8 **Contact Hours:** 3 per week

■ CO2812 COMPUTER PROGRAMMING

Programming, problem-solving constructs, algorithm development, concepts associated with communicating with a computer including structured programming, data representation and control structures.

Credit Points: 10 **Contact Hours:** 5 per week

■ CO3036 COMPUTERS IN THE SCHOOL CURRICULUM

Computers in the school environment and in the curriculum; methods for teaching computing; use of computers for classroom management and support; computer technology and its impact on schools and society. Access to appropriate microcomputer required.

Prerequisite: CU3040

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3060 COMPUTER SYSTEMS & ARCHITECTURE

Single and multi-user operating systems; interaction with computer systems and management of stored information; definition and implementation of algorithms in suitable language; selection of computable representation for real world concepts and application in computer programs; hierarchy of levels of abstraction; adoption of abstracted views of real world

information processing or problem-solving situations; capabilities and limitations of conventional, sequential processing machine architectures.

Credit Points: 10 **Contact Hours:** 3 per week

■ CO3061 COMPUTER APPLICATIONS

Application of technologies in a teaching context; the use of writing and publishing software; graphics design software; numerical software tools; personal and project management tools; communications technologies and computer peripherals used in the production of computer generated materials.

Credit Points: 10 **Contact Hours:** 3 per week

■ CO3062 COMPUTATIONAL & MATHEMATICAL FOUNDATIONS

Fundamental structures and operations; set theory, algorithms, model building, problem solving and computer implementation.

Credit Points: 10 **Contact Hours:** 3 per week

■ CO3063 DATA BASE THEORY & TECHNIQUES

Logical and physical models of information systems; the characteristics of these models; use of a structured query language to query existing curriculum data bases and construct new ones; the sociological implications of the utilisation of public and private data bases.

Credit Points: 10 **Contact Hours:** 3 per week

■ CO3064 PROGRAMMING PRINCIPLES

The development of computer software; data and procedural abstraction; modular programming, step-wise refinement and bottom-up techniques.

Prerequisite: CO3060

Credit Points: 10 **Contact Hours:** 3 per week

■ CO3065 INFORMATION SYSTEM MODELLING

Modelling of information systems, in particular relational systems; fact oriented approaches; conceptual schema design.

Prerequisite: CO3063

Credit Points: 10 **Contact Hours:** 3 per week

■ CO3066 ARTIFICIAL INTELLIGENCE

Artificial intelligence as a discipline; philosophical issues, knowledge representation, reasoning and heuristic methods used in AI; introduction to AI programming.

Prerequisites: CO3060 and CO3062

Credit Points: 10 **Contact Hours:** 3 per week

■ CO3068 COMPUTATIONAL LINGUISTICS

The nature of language; the expression of ideas in language; formalisable grammars and methods of representing both syntax and semantics in computable form; philosophical arguments concerning the computability of natural language understanding; studies of relevant programs and programming techniques.

Credit Points: 10 **Contact Hours:** 3 per week

■ CO3069 ROBOTICS & CONTROL TECHNOLOGY

Geometry, kinematics and control of robotic systems; the design of feedback, control loops and sensors for control applications; programming techniques and specialised languages used for robotic and control applications.

Prerequisite: CO3064

Credit Points: 10 **Contact Hours:** 3 per week

■ CO3070 PROJECT PLANNING & IMPLEMENTATION

Planning, implementation and management of projects involving the use of computers.

Prerequisites: CO3064, CO3065 and CO3066

Credit Points: 10 **Contact Hours:** 3 per week

■ CO3071 COMPUTER EDUCATION PROJECT

Trialling and development of new ideas and innovative uses of computers in education.

Prerequisite: CO3070

Credit Points: 10 **Contact Hours:** 3 per week

■ CO3072 INFORMATION SYSTEM IMPLEMENTATION 1

Implementation of a curriculum or administrative information system in a school environment.

Prerequisite: CO3065

Credit Points: 10 **Contact Hours:** 3 per week

■ CO3073 INFORMATION SYSTEM IMPLEMENTATION 2

Extension of CO3072.

Prerequisite: CO3072

Credit Points: 10 **Contact Hours:** 3 per week

■ CO3074 HEURISTIC PROGRAMMING

Heuristic based programming in a suitable language (Lisp or PROLOG); the standard heuristic methods (best-first, hill-climbing, difference reduction, AI); adaptation or variations on those methods for particular problem-solving situations.

Prerequisites: CO3064 and CO3066

Credit Points: 10 **Contact Hours:** 3 per week

■ CO3075 HUMAN-COMPUTER INFORMATION

The limits that exist to the understanding of human cognition with particular reference to the construction of computer models; the utility and limitations of the tool metaphor to describe human-computer interaction; pre-understanding and background required for effective tool use; model building by the user; identification of forms of linguistic communication; tool construction and use.

Prerequisites: CO3060, CO3061, CO3062 and CO3063

Credit Points: 10 **Contact Hours:** 3 per week

■ CO3080 COMPUTING FOR SCIENCE EDUCATORS

The practical aspects of electronic communication in science; introductory programming in an appropriate language; computer interfacing in science experiments; application of available technology in a data capture and reduction; computer modelling and simulation in science.

Credit Points: 10 **Contact Hours:** 4 per week

■ CO3085 BUSINESS SYSTEMS 1

Systems development life cycle; investigation and analysis; modelling tools; data analysis; data dictionary; data flow diagrams; file design; implementation, installation and review.

Prerequisite: CO3104

Credit Points: 12 **Contact Hours:** 4 per week

■ CO3086 BUSINESS SYSTEMS 2

Overview of structured analysis and design; structured specification; transition to design guidelines and strategies; detailed file design; online screen dialogue

design; practical design of business systems. Incompatible with CO3109

Prerequisites: CO3085 and CO3097

Credit Points: 12 **Contact Hours:** 4 per week

■ CO3087 PROGRAMMING LANGUAGES

Further software development; techniques of program development; top-down design and modularity; computer programming using other appropriate languages. Incompatible with CO3103 and CO3105

Prerequisite: CO3095

Credit Points: 12 **Contact Hours:** 4 per week

■ CO3088 COMPUTER ORGANISATION

Multilevel machines; CPU structure and functioning; conventional machine instructions and microprogramming; assemblers, compilers and interpreters; computer operating systems.

Prerequisite: CO3095

Credit Points: 12 **Contact Hours:** 4 per week

■ CO3089 COMMERCIAL SYSTEMS DEVELOPMENT

Production of reliable software; standards and documentation; programming for large systems; managing software development; programming using advanced COBOL.

Prerequisite: CO3095 (BAppSc - CO3104)

Credit Points: 12 **Contact Hours:** 4 per week

■ CO3090 DATABASE SYSTEMS 1

Database system architecture; storage structures and database models; relational database systems; relational algebra and calculus; further normalisation theory; advanced use of database languages including SQL.

Prerequisite: CO3104

Credit Points: 12 **Contact Hours:** 4 per week

■ CO3091 INDUSTRY PROJECT

Individual work related to an application of computers in business or other approved area.

Prerequisite: CO3085 or CO3109 plus subjects as required

Credit Points: 12 **Contact Hours:** 4 per week

■ CO3092 ONLINE SYSTEMS

Data communication techniques; communication hardware; network and online system design; security, back-up and recovery; online systems operation; practical development of online system. Incompatible with CO3108 and CO3110

Prerequisite: CO3089

Credit Points: 12 **Contact Hours:** 4 per week

■ CO3093 SYSTEMS PLANNING

Information system classifications; corporate modelling and data base developments; management of information system development; costing and development strategies; information systems trends.

Prerequisites: (CO3090 or CO3102) or (CO3109 or CO3085)

Credit Points: 12 **Contact Hours:** 4 per week

■ CO3095 COMMERCIAL APPLICATIONS DEVELOPMENT

Development of algorithms; program design; programming style; structured programming concepts; file processing; report generation; practical programming using COBOL.

Prerequisite: CO3101

Credit Points: 12 **Contact Hours:** 4 per week

■ CO3096 COMPUTER SYSTEMS MANAGEMENT

Management of computer installation; overview of computer equipment of different manufacturers; organisation of personnel; evaluation and selection of hardware and software; physical security and administrative controls.

Prerequisite: CO3085 or completion of 96 credit points for the BAppSc

Credit Points: 12 **Contact Hours:** 4 per week

■ CO3097 INFORMATION ANALYSIS

Introduction to database systems; database concepts; conceptual data modelling; normalisation; relational database design and implementation; information analysis; conceptual schema design; data definition languages.

Prerequisite: CO3104 or equivalent

Credit Points: 12 **Contact Hours:** 4 per week

■ CO3098 DATABASE SYSTEMS 2

Advanced database concepts; performance and reliability criteria; recovery, integrity, concurrency and security; optimisation techniques; distributed database systems.

Prerequisite: CO3090

Credit Points: 12 **Contact Hours:** 4 per week

■ CO3099 DECISION SUPPORT SYSTEMS

Overview of decision support systems; use of computers to assist in decision making; integrating optimisation models with information systems; expert systems.

Prerequisite: CO3097 and MK3022

Credit Points: 12 **Contact Hours:** 4 per week

■ CO3100 INTRODUCTION TO SOFTWARE ENGINEERING

Sets; propositional calculus; predicate calculus; matrices; graphs; trees; Boolean algebra; finite state automata; turning machine; Halting problem; complexity; formal methods; Z notation; case studies; refinement.

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3101 INTRODUCTION TO PROGRAMMING

Conversion of problems to algorithmic solutions; design, coding, testing and debugging programs; structured programming techniques, style and documentation.

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3102 CONCEPTS IN COMPUTER SYSTEMS

Computer evolution, computer hardware and architecture; input, output and storage devices; computer systems, computer software levels, data communications; applications packages and an introduction to SQL. Incompatible with CO3101

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3103 DATA STRUCTURES

Built-in data structures: arrays, strings, sets, seconds, files (sequential, indexed, random). User-defined data structures: lists, stacks, queues, trees, graphs. Data abstraction: information hiding, packages, generic packages.

Prerequisites: CO3100 and CO3101

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3104 INTRODUCTION TO INFORMATION SYSTEMS

Basic information system concepts; the utilisation of information; microcomputer packages and equipment; office automation; introduction to SQL.

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3105 SYSTEMS SOFTWARE

Systems structure, kernel architectures, user perspective, file system, buffer cache, control processes, system call interface, interrupt handling, process scheduling, memory management. Shell programming, system management. Introduction to C.

Prerequisite: CO3101

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3107 SOFTWARE ENGINEERING

Specification methods; modular programming techniques; language support for modular programming; debugging techniques.

Prerequisites: CO3101 and CO3109

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3108 INTRODUCTION TO COMPUTER NETWORKS

Distributed system architecture and open system interconnection; data communications hardware; data communications software, network management; local area networks; future trends in networking.

Prerequisite: CO3095 or CO3104

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3109 SYSTEMS ANALYSIS & DESIGN

Information systems and their development; the systems development life cycle; project management; structured analysis and design tools and techniques; security and controls; systems documentation; system conversion; testing implementation planning and user training.

Prerequisite: CO3104

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3110 SYSTEMS DEVELOPMENT PROJECT

The design, development and implementation of a computer based system; demonstration of the working system.

Prerequisites: CO3109 and subjects as required by supervisor

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3111 SOCIAL IMPLICATIONS OF COMPUTING

The change in employment trends; personal information held in databases. Privacy: legal aspects of data gathering. Codes of conduct for professionals. Intellectual property and copyright. Unauthorised access to information.

Prerequisite: 96 credit points of computing

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3112 GRAPHICS SYSTEMS

Hardware and software of graphics systems; coordinate systems and algorithms for two-dimensional graphics; standard graphics systems; two-dimensional and three-dimensional transformations; hidden surfaces, shading, colouring and animation.

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3113 KNOWLEDGE ENGINEERING

Introduction to knowledge engineering; definition, history of artificial intelligence, current trends. Knowledge representation; rule based, frame based and logic programming. Knowledge manipulation; search methods, inferencing and inference engines.

Language for knowledge representation and manipulation. Expert systems; Bayesian measures of certainty, systems which explain their conclusions. Applications of knowledge engineering.

Prerequisite: CO3103

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3114 INTELLIGENT INFORMATION SYSTEMS

The different aspects of the conceptual schema: structure, validation rules, deduction rules; storage. Implementation techniques: views and triggered procedures. Combination of an inference engine with a DBMS.

Prerequisites: CO3090 and CO3112

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3115 NETWORKS

The Open System Interconnection (ISO) model: physical layer, medium access sublayer, data link layer, network layer, transport layer, session layer, presentation layer, applications layer. A detailed exposition of each layer.

Prerequisites: CO3105 and CO3108

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3116 SPECIAL TOPIC

The subject is designed to give students an opportunity to explore an area of mutual interest with a topic supervisor.

Prerequisites: As determined by the topic supervisor

Credit Points: 12

■ CO3117 STATISTICS & SIMULATION TECHNIQUES

Descriptive techniques for ungrouped data; probability distributions; sampling distributions; introduction to SPSS/SA; simulation techniques; discrete simulation models; queueing theory; introduction to stochastic processes; analysis of output and validation of models; random number generators.

Prerequisites: CO3100 and CO3101

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3118 TRANSACTION BASED SYSTEMS

Transaction processing systems (TPS) requirements; transaction rates, atomic events, multiple access; disk performance, performance tuning; distributed TPS, planning for TPS, capacity planning for TPS.

Prerequisite: CO3089

Credit Points: 12 **Contact Hours:** 3 per week

■ CO3712 COMPUTERS & EDUCATION

An overview of microcomputer hardware and software with emphasis on the usefulness of various hardware components in schools; development of programming skills through a study of algorithms and their computer implementation in a high level language; critical examination of a variety of uses of computers in education; the impact of computer technology on society in general and education in particular.

Credit Points: 12 **Contact Hours:** 3 per week

■ CO4035 COMPUTER SYSTEMS

Algorithms; principles of structured programming; programming languages; hardware and operating systems.

Credit Points: 12 **Contact Hours:** 3 per week

■ CO4036 COMPUTERS IN EDUCATION

Range of possible uses of computers in education; impact of information technologies on learning, curriculum development and teaching strategies; the computer as an administrative tool in education; social implications of the use of computers.

Credit Points: 12 **Contact Hours:** 3 per week

■ CO4037 STRUCTURED PROGRAMMING

Extends the programming concepts introduced in CO4035; advanced topics in programming: functions; data abstraction; recursion, pointers; use of programming tool boxes.

Prerequisite: CO4035

Credit Points: 12 **Contact Hours:** 3 per week

■ CO4038 COMPUTER EDUCATION PROJECT

Types of educational and administrative problems which are and are not amenable to a computer solution; factors unique to planning computer related activities; evaluation and publishing.

Prerequisites: CO4035, CO4036 and CO4045

Credit Points: 12 **Contact Hours:** 3 per week

■ CO4039 TEACHING COMPUTER STUDIES: SECONDARY

The nature of computer studies at secondary school level; existing computer studies subjects; frames of reference for teaching computer studies; application to particular subject areas; relating computer studies to the total school curriculum.

Prerequisites: CO4035 and CO4036

Credit Points: 12 **Contact Hours:** 3 per week

■ CO4040 COMPUTERS IN PRIMARY EDUCATION

Computer-based techniques for teaching problem-solving strategies; application of word processing and other software packages to the language arts curriculum; the computer as an information resource for the classroom; teaching and learning with microcomputers; computers, society and education.

Prerequisite: CO4036

Credit Points: 12 **Contact Hours:** 3 per week

■ CO4041 COMPUTERS & SCHOOL ADMINISTRATION

Application of computer to educational administration; student information system; data bases, spreadsheets, text processing and graphics packages; timetabling and resource utilisation; financial accounting; office automation.

Prerequisites: CO4036 and CO4045

Credit Points: 12 **Contact Hours:** 3 per week

■ CO4042 ARTIFICIAL INTELLIGENCE

Overview of artificial intelligence research, its current and future impact on society; computer capabilities and the human mind; methods and techniques used in AI programming; overview of logic programming in PROLOG and Pascal.

Prerequisites: CO4035 and CO4037

Credit Points: 12 **Contact Hours:** 3 per week

■ CO4043 COMPUTER GRAPHICS

Use of computer-generated graphics in education; examination and use of a selection of graphics packages running on microcomputers; programming for computer graphics.

Prerequisite: CO4035

Credit Points: 12 **Contact Hours:** 3 per week

■ CO4044 MODELLING INFORMATION SYSTEMS

Knowledge representation; very high level problem description and data base languages; development of information processing systems.

Prerequisite: CO4045

Credit Points: 12 **Contact Hours:** 3 per week

■ CO4045 INFORMATION SYSTEMS & EDUCATION

Information storage; types and models of information systems; knowledge representation; data bases and data base languages; social impact of information systems.

Credit Points: 12 **Contact Hours:** 3 per week

■ CO4046 COMPUTER TOOLS FOR TEACHING

Application of computers to educational activities; use of software packages for: graphic presentation, text processing and numerical analysis; development of teaching materials.

Prerequisite: CO4035

Credit Points: 12 **Contact Hours:** 3 per week

■ CO4050 ADVANCED DATABASE TECHNOLOGY

Integrity constraints in a database; backup and recovery; security issues; transaction handling; data communications and distributed databases; database engines; comparison of contemporary DBMS.

Prerequisite: CO4052

Credit Points: 12 **Contact Hours:** 4 per week

■ CO4051 COMMERCIAL SYSTEMS

Overview of business systems; tools and techniques of systems analysis; structured approaches to systems analysis; introduction to systems design; selection, acquisition and installation of a computer; implementation and documentation; project management.

Prerequisite: CO3104 or equivalent

Credit Points: 12 **Contact Hours:** 4 per week

■ CO4052 DATABASE MANAGEMENT SYSTEMS

Three-level database architecture; storage structures and data models; relational database model; IBM's DB2; network database systems; CODASYL model; hierarchical database systems and IMS; comparison of commercial database systems.

Prerequisite: CO3104 or equivalent

Credit Points: 12 **Contact Hours:** 4 per week

■ CO4053 KNOWLEDGE ENGINEERING

'Intelligent' information systems; the ISO three-schema model; knowledge representation (KR); knowledge manipulation (KM); languages for KR and KM; expert systems; applications of knowledge engineering techniques.

Prerequisite: CO3097 and CO3100

Credit Points: 12 **Contact Hours:** 4 per week

■ CO4055 MICROCOMPUTER APPLICATIONS

Introduction to the applications of microcomputers in a business environment; hardware and software components of a microcomputer system; operating system functions; database management systems and spreadsheets; trends in microcomputer technology and applications.

Credit Points: 12 **Contact Hours:** 4 per week

■ CS3026 CONSUMERS & THE LAW

The place of the consumer in the Australian economy; the consumer in the market place; alternatives to mass consumption; legal procedures; legal requirements regarding business transactions and business organisations; consumer protection; family and the law.

Credit Points: 9 **Contact Hours:** 4 per week

■ CS3031 CONSUMER EDUCATION

Consumer education in the school curriculum; curriculum content in the consumer education

curriculum; examination of various teaching strategies with emphasis on developmental discussion approaches; games and simulation, inquiry approaches, team teaching, audiovisual aids, community resources; curriculum development and innovation.

Prerequisite: CU3040 or equivalent (Students not from secondary schools or TAFE colleges must obtain approval from the Head of School before enrolling.)

Credit Points: 12 **Contact Hours:** 3 per week

■ CT2800 CREATIVE CLOTHING

Use and care of the sewing machine; choosing patterns; fitting adjustments; codes and layouts; fabric selection; clothing construction processes; garment making.

Credit Points: 5 **Contact Hours:** 2 per week

■ CT3701 CLOTHING DESIGN

Influences on fashion; fashion research and analysis; concepts of design; design development; apparel production; consumer demand; fashion change and consumer acceptance; teaching strategies and resources.

Credit Points: 12 **Contact Hours:** 3 per week

■ CU3005 INTRODUCTION TO CURRICULUM & TEACHING STUDIES A

The nature of the subject/discipline and its role and contribution as a medium for education; introduction to relevant Queensland Years 8-10 and Years 11-12 syllabuses and the organisation of learning into school work programs, semester/term courses, teaching units and lessons; lesson and activity planning routines and models; basic teaching strategies for practice teaching.

Prerequisite: A minimum of 100 credit points in the Discipline Studies Strand. Students preparing in two teaching areas should have a minimum of 40 credit points in Discipline Studies in each of the two unless prior arrangements have been made with the Course Coordinator.

Credit Points: 15

■ CU3006 INTRODUCTION TO CURRICULUM & TEACHING STUDIES B

The nature of the subject/discipline and its role and contribution as a medium for education; introduction to relevant Queensland Years 8-10 and Years 11-12 syllabuses and the organisation of learning into school work programs, semester/term courses, teaching units and lessons; lesson and activity planning routines and models; basic teaching strategies for practice teaching.

Prerequisite: A minimum of 100 credit points in the Discipline Studies Strand. Students preparing in two teaching areas should have a minimum of 40 credit points in Discipline Studies in each of the two unless prior arrangements have been made with the Course Coordinator.

Credit Points: 15

■ CU3007 CURRICULUM PLANNING & IMPLEMENTATION A

The curriculum development process; advantages/disadvantages of the broad framework/modified objectives model in use in Queensland secondary schools; principles of curriculum design and implementation; school-based curriculum development; translating a syllabus into a school work program; planning modules of learning; diagnosing and responding to student strengths and problems; factors affecting the relationship between planning and teaching; planning an assessment pro-

gram; alternative approaches to assessment, assessment requirements in Queensland schools; writing a variety of assessment instruments; curriculum evaluation.

Prerequisites: CU3005 and CU3006

Credit Points: 10

■ CU3008 CURRICULUM PLANNING & IMPLEMENTATION B

The curriculum development process; advantages/disadvantages of the broad framework/modified objectives model in use in Queensland secondary schools; principles of curriculum design and implementation; school-based curriculum development; translating a syllabus into a school work program; planning modules of learning; diagnosing and responding to student strengths and problems; factors affecting the relationship between planning and teaching; planning an assessment program; alternative approaches to assessment, assessment requirements in Queensland schools; writing a variety of assessment instruments; curriculum evaluation.

Prerequisites: CU3005, CU3006 and CU3007

Credit Points: 10

■ CU3009 DIRECTIONS & ISSUES IN CURRICULUM STUDIES

The nature of innovation, ideological and contextual influences on curriculum change, teachers' beliefs and responses to innovations.

Co-requisites: CU3010 and TS3003

Prerequisites: CU3005, CU3006, CU3007 and CU3008

Credit Points: 10

■ CU3010 DIRECTIONS & ISSUES IN CURRICULUM STUDIES B

The nature of innovation, ideological and contextual influences on curriculum change, teachers' beliefs and responses to innovations.

Co-requisites: CU3009 and TS3003

Prerequisites: CU3005, CU3006, CU3007 and CU3008

Credit Points: 10

■ CU3040 TEACHERS & THE CURRICULUM

Introduction to the concepts of curriculum and of the relationship of curriculum theory and practice; consideration of the role of the teacher as a curriculum analyst, designer and change agent in the context of curriculum theory, school-based curriculum development and a selected educational issue; the development of a proposed curriculum action incorporating situational analysis, design, implementation and evaluation.

Credit Points: 12 **Contact Hours:** 3 per week

■ CU3041 EVALUATION IN CURRICULUM DEVELOPMENT

Basic concepts of evaluation; models of curriculum evaluation; procedures for undertaking an evaluation within the social context of the school; data-gathering methods; report writing.

Prerequisite: CU3040 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ CU3042 INTRODUCTION TO CURRICULUM CONSTRUCTION

Curriculum terminology and theory; the key elements of a curriculum; the pressures or influences that affect decision making; the process of curriculum development; school-based curriculum development and innovation.

Credit Points: 12 **Contact Hours:** 3 per week

■ CU4015 CURRICULUM & RESOURCE DEVELOPMENT IN HRE

Curriculum as political activity – the case of human relationship education; models of curriculum development; program building for specific school/community environments. Participatory curriculum policy development and decision making.

Credit Points: 12 **Contact Hours:** 3 per week

■ CU4016 APPLIED STUDY IN HRE

Develop, implement, evaluate an HRE program in a specific school or community; initiate curriculum development and change in the school setting.

Credit Points: 12 **Contact Hours:** 3 per week

■ CU4017 ART CURRICULUM FOUNDATIONS

Overview and understanding of aims, content and agenda of historical and contemporary art education orientations; assumptions by movements in relation to art theories, child development, teachers' role and classroom practice; investigation of strengths and weaknesses, theory and practice and historical, social and intellectual influence on past and present art education philosophies.

Credit Points: 12 **Contact Hours:** 2 per week

■ CU4018 CURRICULUM EVALUATION: ARTS EDUCATION

Awareness of historical perspective of curriculum evaluation; critically analyse dilemmas in contemporary modes of curriculum evaluation; evaluate an existing curriculum project.

Credit Points: 12 **Contact Hours:** 2 per week

■ CU4020 CURRICULUM FOUNDATIONS OF MUSIC EDUCATION

Conceptual frameworks for understanding educational practice and curriculum theory; analysis of existing curriculum theories through socio-political, socio-cultural, socio-historical, ideological constraints.

Credit Points: 12 **Contact Hours:** 3 per week

■ CU4021 ISSUES IN MUSIC EDUCATION

Developments in arts education in Queensland within P-10 framework; role of arts/music education; develop a process of learning that is critical in nature; contributions made by history, sociology, psychology and philosophy to arts education.

Credit Points: 12 **Contact Hours:** 3 per week

■ CU4022 APPLIED STUDIES (PRACTICAL)

Study of movement, voice and classroom instruments and associated literature; write and arrange music for classroom use; develop teaching strategies for voice, movement and instrumental music, rehearsal and conducting techniques.

Credit Points: 12

■ CU4023 APPLIED STUDIES (CURRICULUM)

Portrayal of the context within which a curriculum design process can occur; design of a curriculum in music in local context; rationalisation of such a design using principles of curriculum design and evaluation.

Credit Points: 12 **Contact Hours:** 2 per week

■ DA1100 CLASSICAL MAIN STUDY 1

Principles of the classic techniques; practical work includes barre work, adagio, pirouettes, allegro, pointe work and pas de deux.

Credit Points: 12 **Contact Hours:** 8 per week

■ **DA1101 CONTEMPORARY BASIC STUDY 1**
Principles of the contemporary technique; practical work includes floor and centre work, combinations, dance vocabulary, analysis of dance sequences.
Credit Points: 8 **Contact Hours:** 3 per week

■ **DA1104 REPERTOIRE 1**

Study of selected repertoire pieces; rehearsal of individual aspects of the repertoire work; performance of all or part of the selected repertoire.

Credit Points: 5 **Contact Hours:** 2 per week

■ **DA1105 DANCE COMPOSITION 1**

Discussion and theoretical understanding of dance composition; practical exploration of skills essential for dance composition including: establishment of approach or theme, style of movement, patterning of movement, phrasing of steps, selection and structuring of completed dance segments.

Credit Points: 5 **Contact Hours:** 2 per week

■ **DA1106 MUSIC 1**

Introduction through the Kodaly concept of music; reading, writing and signing of simple musical examples.

Credit Points: 5 **Contact Hours:** 3 per week

■ **DA1107 APPLIED ANATOMY 1**

Skeletal structure with emphasis on the vertebral column, pelvic girdles, and upper and lower appendages; types of joints; structure and stabilising factors of joints; principal muscle groups responsible for joint movement.

Credit Points: 5 **Contact Hours:** 2 per week

■ **DA1108 DANCE STYLES 1**

Study of both the folk dance and tap dance styles. Practical work includes: folk steps and dances from selected parts of the world; basic tap dance combinations and routines for performance.

Credit Points: 5 **Contact Hours:** 2 per week

■ **DA1109 BODY ALIGNMENT**

Body and self image; basic working positions; posture as a dynamic concept; body scanning; alignment.

Credit Points: 5 **Contact Hours:** 1.5 per week

■ **DA1114 REPERTOIRE 2**

Study of selected repertoire pieces; rehearsal of individual aspects of the repertoire work; rehearsal of corps aspects of the repertoire; performance of all or part of the selected repertoire.

Prerequisite: DA1104

Credit Points: 5 **Contact Hours:** 3 per week

■ **DA1115 DANCE COMPOSITION 2**

Discussion and understanding of approaches to choreography; practical experimentation with choreographic themes in class; arrangement of steps and gestures to give both form and purpose to dance; graded compositional studies for both children and adults.

Prerequisite: DA1105

Credit Points: 5 **Contact Hours:** 2 per week

■ **DA1116 MUSIC 2**

Continuation of DA1106.

Prerequisite: DA1106

Credit Points: 5 **Contact Hours:** 3 per week

■ **DA1117 APPLIED ANATOMY 2**

Principles which govern human stability and motion; the ways in which muscles work to produce movement; simple machines of the body; movement and injury; dance injuries.

Prerequisite: DA1107

Credit Points: 5 **Contact Hours:** 1.5 per week

■ **DA1119 PRACTICE PERIOD 1**

Daily technique classes; structure of rehearsals; individual tutorial work for compositions and featured roles; personal preparation for rehearsals and performance; technique and dress rehearsals; critical evaluation during season and post-performance evaluation.

Credit Points: 20

■ **DA1121 CONTEMPORARY DANCE 1**

Consolidation of contemporary dance technique.

Prerequisites: DA1101 and DA1142

Credit Points: 10 **Contact Hours:** 7.5 per week

■ **DA1122 REPERTOIRE 3**

Study of selected repertoire pieces; refinement of required technique; interpretation and style; adaptation of works as necessary for variable venues; performances of all or part of the selected repertoire studied.

Prerequisite: DA1114

Credit Points: 5 **Contact Hours:** 3 per week

■ **DA1123 DANCE COMPOSITION 3**

Discussion and investigation of dance forms; preparation and presentation of short solo and group sequences; practical experience in group dance through improvisation and set compositional studies; discussion and criticism of presented dance works, discussion of criteria for evaluation and assessment of dance works.

Prerequisite: DA1115

Credit Points: 5 **Contact Hours:** 2 per week

■ **DA1124 DANCE STYLES 3**

Study of both the character and jazz dance styles; practical work includes basic technique, step combinations, solo and group choreographic work.

Prerequisite: DA1134

Credit Points: 5 **Contact Hours:** 3 per week

■ **DA1125 HISTORY OF DANCE**

Early development of dance technique: social and religious functions of dance; development of dance throughout the Renaissance period; the European and Russian contribution to classical ballet; the rise of modern dance in Europe and America; the development of dance in Australia.

Credit Points: 5 **Contact Hours:** 2 per week

■ **DA1126 CLASSICAL BALLET 2**

Consolidation of classical ballet technique.

Prerequisite: DA1135

Credit Points: 10 **Contact Hours:** 7.5 per week

■ **DA1128 REPERTOIRE 4**

Study of selected repertoire work of different styles; refinement of required technique, interpretation and style; adaptation of works as necessary for variable venues; performance of all or part of the selected repertoire studied.

Prerequisite: DA1122

Credit Points: 5 **Contact Hours:** 3 per week

■ **DA1129 DANCE COMPOSITION 4**

Preparation of short solo pieces for another dancer; preparation of group works with emphasis on particular elements of composition; investigation of costuming, lighting and sound accompaniment for group composition; choreography of a work for public performance.

Prerequisite: DA1123

Credit Points: 5 **Contact Hours:** 2 per week

■ DA1130 DANCE STYLES 4

Continuation of DA1124.

Prerequisite: DA1124

Credit Points: 5 **Contact Hours:** 3 per week

■ DA1131 PROFESSIONAL AWARENESS STUDIES

Studies in the latest developments in all areas of the dance community.

Credit Points: 5 **Contact Hours:** 3 per week

■ DA1133 PRACTICE PERIOD 2

Daily technique class; structured rehearsals; individual tutorial work for compositions and featured roles; personal preparation for rehearsals and performances; technical and dress rehearsals; critical evaluation during season and post-performance evaluation.

Prerequisite: DA1119

Credit Points: 20

■ DA1134 DANCE STYLES 2

Development of dancing and singing skills; composition of dance routines for chorus; dramatic aspects of music comedy; tap dance combinations and routines.

Prerequisite: DA1108

Credit Points: 10 **Contact Hours:** 4 per week

■ DA1135 CLASSICAL BALLET 1

Consolidation of the classical ballet technique.

Prerequisites: DA1100 and DA1143

Credit Points: 15 **Contact Hours:** 9 per week

■ DA1136 STAGECRAFT 1

Basic principles of stage production including make-up, stage lighting design and operation; sound recording and operation.

Credit Points: 5 **Contact Hours:** 2 per week

■ DA1137 CONTEMPORARY DANCE 2

The origins and dramatic impulses which are the source of movement in various types of falls, jumps and travelling steps; interpretation of short choreographic sequence.

Prerequisite: DA1121

Credit Points: 15 **Contact Hours:** 8 per week

■ DA1138 STAGECRAFT 2

Basic principles of costuming for dance including properties of fabric design and construction.

Credit Points: 5 **Contact Hours:** 2 per week

■ DA1142 CONTEMPORARY MAIN STUDY 2

Practical work includes floor work, centre work and basic combinations; combinations to develop flexibility, strength and coordination; wider vocabulary of contemporary dance techniques; 'off balance' technique.

Credit Points: 12 **Contact Hours:** 6 per week

■ DA1143 CLASSICAL BASIC STUDY 2

Practical work includes barre work, adagio, pirouettes, allegro, batterie, pointe work and pas de deux.

Prerequisite: DA1100

Credit Points: 8 **Contact Hours:** 5 per week

■ DA2801 HISTORICAL & ETHNIC DANCE

Dances from Medieval and Renaissance periods of Europe and their influence on and relationship to the ethnic and modern dances of the twentieth century; examination of the music, dance and culture of peoples from various parts of the world.

Credit Points: 8 **Contact Hours:** 3 per week

■ DA2802 CREATIVE DANCE

Elements of dance and the nature of rhythm; the nature of creativity and movement and expression in dance; movement phrases in dance-like form; music and dance; space and dance; relationships and form; drama, movement, music and dance; assessment.

Credit Points: 8 **Contact Hours:** 3 per week

■ DA2804 DANCE TECHNIQUES 1

Development of jazz techniques, through response to rhythmic structure of jazz movement, correct alignment of the body as required by the technique, understanding and experience of expression through jazz dance combinations in informal presentation; construction and development of jazz sequences.

Credit Points: 5 **Contact Hours:** 2 per week

■ DA2809 NATIONAL & FOLK DANCE

Development of steps and style of selected National and Folk Dances. Understanding of cultural background of selected populations, investigation of costumes appropriate to selected populations. Demonstration of selected National and Folk dances.

Credit Points: 10 **Contact Hours:** 3 per week

■ DA2810 MOVEMENT FOR YOUNG CHILDREN

Examines the predisposition of young children towards rhythm in movement and sound; seeks to identify how this might be used to enhance their early education; play element in relation to the above; situations in which creative learning experiences might emerge; workshops.

Credit Points: 8 **Contact Hours:** 3 per week

■ DA2811 JAZZ FOR FITNESS

Appreciating the body as a functional instrument and tool for expression through physical skills; understanding and using movement concepts in a variety of contexts; demonstrating spatial and rhythmic awareness; application of anatomical knowledge.

Credit Points: 10 **Contact Hours:** 4 per week

■ DA3000 CONTEMPORARY TECHNIQUE 1

The basic contemporary dance vocabulary (contraction, release); study of Graham Technique with particular reference to development of strength, flexibility and placement of spine and limbs.

Credit Points: 10 **Contact Hours:** 7 per week

■ DA3001 CONTEMPORARY TECHNIQUE 2

Continuation of DA3000. Basic combinations of movements; analysis of dance sequences.

Prerequisite: DA3000

Credit Points: 10 **Contact Hours:** 7 per week

■ DA3037 ADVANCED PERFORMANCE 1

Study of highly technical dance styles. Exploration of the life context of the dancer as an artist.

Prerequisite: Audition

Credit Points: 20 **Contact Hours:** 7 per week

■ DA3038 ADVANCED PERFORMANCE 2

Continuation of highly technical dance styles. Exploration of the rehearsal and performance work ethic.

Prerequisite: DA3037

Credit Points: 20 **Contact Hours:** 7 per week

■ DA3039 ADVANCED PERFORMANCE 3

Synthesis of all elements of study culminating in public performance.

Prerequisite: DA3038

Credit Points: 20 **Contact Hours:** 7 per week

■ DA3050 COMPOSITION 1

Introduction to the domain of composition, providing a sound grounding in contemporary approaches to dance making including: developing a personal movement language and an investigation of how dance presents/creates meaning.

Credit Points: 10 **Contact Hours:** 4 per week

■ DA3051 DANCE ANALYSIS & HISTORY

Introduction to the analysis of dances through a concentration on the dance as text; a study of various historical contexts of dance as art.

Credit Points: 20 **Contact Hours:** 3 per week

■ DA3052 ANATOMY & ALIGNMENT

The anatomical structure and alignment techniques, their function and application to increase movement range and lessen dance injuries.

Credit Points: 15 **Contact Hours:** 3 per week

■ DA3053 CONTEMPORARY TECHNIQUE 1

The basic contemporary dance vocabulary; study of Graham, Cunningham or Limon Technique with particular reference to development of strength, flexibility and placement of spine and limbs. Basic combinations of movements; analysis of dance sequences.

Credit Points: 20 **Contact Hours:** 7.5 per week

■ DA3054 CLASSICAL TECHNIQUE 1

Review and consolidation of the fundamental technique and its application designed to reinforce and develop an appropriate range of technical skills within the four tier practical level system.

Credit Points: 10 **Contact Hours:** 4.5 per week

■ DA3055 MUSIC 1

Elements of music: concepts of beat, accent, rhythm and phrasing. Introduction to keyboard skills: study of style in the nineteenth century. Notation, history, literature, score reading and aural skills.

Credit Points: 5 **Contact Hours:** 3 per week

■ DA3056 CONTEMPORARY TECHNIQUE 2

Technical work including off-balance turns and rapid changes of weight, level and direction; exploration of rhythm. Continued emphasis on performance of sequence work.

Prerequisite: DA3053

Credit Points: 20 **Contact Hours:** 7.5 per week

■ DA3057 CLASSICAL TECHNIQUE 2

Consolidation of technique; study of a variety of selected approaches to classical ballet and develop an appropriate range of technical skills within the four tier practical level system.

Prerequisite: DA3054

Credit Points: 10 **Contact Hours:** 4.5 per week

■ DA3058 COMPOSITION 2

The conceptual base of the medium and of the heuristic principles governing the making of dance; exploration of more formal dynamic, temporal and spatial structures, deemed historically appropriate as a means of structuring movement and conveying a choreographer's intention. The power and responsibility of the artist; the finite possibilities for the interpretation of a work; ownership of choreographic works once they enter the public domain.

Prerequisite: DA3050

Credit Points: 10 **Contact Hours:** 4 per week

■ DA3059 HISTORY OF AUSTRALIAN THEATRE DANCE

A study of the development of dance as an art form in Australia in the twentieth century.

Prerequisite: DA3051

Credit Points: 10 **Contact Hours:** 3 per week

■ DA3060 MUSIC 2

Continuation of DA3055. More complicated keyboard skills; study of the twentieth century musical style; vocal and improvisation studies.

Prerequisite: DA3055

Credit Points: 5 **Contact Hours:** 3 per week

■ DA3061 PRACTICUM

Consolidation of the student's knowledge and skills in direct artistic experience in real contexts.

Credit Points: 20

■ DA3062 DANCE IN THE COMMUNITY

Introductory studies of dance in the community; exploring the role of the dance in the community; procedures for establishing a dance project; basic program planning and teaching approaches for community dance.

Credit Points: 12 **Contact Hours:** 4 per week

■ DA3064 DANCE RESEARCH

Practical training in scholarly methods and professional skills.

Credit Points: 5 **Contact Hours:** 2 per week

■ DA3065 WRITINGS ON DANCE

Strategies for reading, and writing exposition and argument, with emphasis on clarity of expression and presentation of thought.

Prerequisites: AR3006, DA3064 and DA3066

Credit Points: 5 **Contact Hours:** 2 per week

■ DA3066 DANCE IN AUSTRALIAN SOCIETY

The ritual, artistic and social functions of dance in contemporary Australian society.

Co-requisite: DA3064

Prerequisite: AR3005

Credit Points: 10 **Contact Hours:** 3 per week

■ DA3067 PROFESSIONAL DEVELOPMENT STUDIES

Preparation for the dance industry; preparation of curriculum vitae and funding applications; auditions; contracts; press relations and management.

Credit Points: 5 **Contact Hours:** 2 per week

■ DA3068 DANCE INDEPENDENT STUDY

Students are required to design and carry through a major program on their own initiative after negotiation and consultation with lecturing staff.

Prerequisites: DA3064 and DA3065

Credit Points: 20

■ DA3069 PRODUCTION TECHNIQUES

Study and practice in elements of theatre production; lighting, sound and costume.

Credit Points: 10 **Contact Hours:** 6 per week

■ DA3070 ENQUIRIES INTO THE PHILOSOPHY OF DANCE

Study into theories of dance from Noverre to Rainer; reading, discussion and analysis of philosophical writings on issues in art and dance.

Credit Points: 30 **Contact Hours:** 3 per week

■ DA3071 RESEARCH PROJECT

Students undertake a substantial piece of supervised research after academic advisement. In some cases

this might include practical work and associated seminars.

Prerequisite: DA3064

Credit Points: 60

■ DA3072 ADVANCED ANALYSIS 1: BALLET

The skills involved in the aesthetic appreciation and analysis of the masterworks of ballet.

Co-requisites: DA3064 and DA3066

Prerequisites: A grade of 5 or above in DA3051 and DA3059

Credit Points: 10 **Contact Hours:** 3 per week

■ DA3073 ADVANCED ANALYSIS 2: MODERN DANCE

The aesthetic appreciation and analysis of the masterworks of modern dance.

Co-requisite: DA3065

Prerequisites: A grade of 5 or above in DA3051 and DA3059

Credit Points: 10 **Contact Hours:** 3 per week

■ DA3074 ADVANCED ANALYSIS 3: COMPARATIVE STUDY

The skills involved in the aesthetic appreciation and analysis of the masterworks of ballet or modern dance used to engage in a comparison of various features of specific dances chosen for detailed study.

Prerequisites: A grade of 5 or above in DA3051, DA3072 or DA3073

Credit Points: 10 **Contact Hours:** 1 per week

■ DA3075 ADVANCED COMPOSITION 1

Exploration of how dance creates meaning; the aesthetic questions that have emerged out of the last major choreographic movement; an exploration of possible future directions.

Co/Prerequisite: DA3056

Credit Points: 10 **Contact Hours:** 5 per week

■ DA3076 ADVANCED COMPOSITION 2

'Contact Improvisation' and its use as a basis for the development of partner work; the range of traditional and non-traditional forms available to the choreographer when working with groups of varying sizes.

Co/Prerequisites: DA3072 and DA3075

Credit Points: 10 **Contact Hours:** 5 per week

■ DA3077 ADVANCED COMPOSITION 3

The links between technology and dance in the areas of light and sound – the principal elements of dance design; a major individual project that involves the application and integration of a range of technological devices/processes.

Co/Prerequisites: DA3073 and DA3076

Credit Points: 10 **Contact Hours:** 5 per week

■ DA3078 DANCE IN THE COMMUNITY 1

In-depth studies in teaching for dance; program planning and teaching approaches for specific dance groups.

Prerequisite: DA3062

Credit Points: 10 **Contact Hours:** 3 per week

■ DA3079 DANCE IN THE COMMUNITY 2

Students are required as a group to initiate, devise, develop and produce a dance within the community with the emphasis on management skills.

Prerequisite: DA3078

Credit Points: 10 **Contact Hours:** 3 per week

■ DA3080 DANCE IN THE COMMUNITY 3

Students are required to individually initiate, devise, develop and produce a dance project within the com-

munity with the emphasis on the creativity and production of the project.

Prerequisite: DA3079

Credit Points: 10 **Contact Hours:** 3 per week

■ DA3081 ANALYSIS & HISTORY – ELECTIVE

Introduction to the analysis of dances through a concentration on the dance as text; a study of various historical contexts of dance as art.

Credit Points: 20 **Contact Hours:** 3 per week

■ DA3082 COMPOSITION 1 – ELECTIVE

Introduction to the domain of composition, providing a sound grounding in contemporary approaches to dance making including developing a personal movement language and an investigation of how dance presents/creates meaning.

Credit Points: 10 **Contact Hours:** 4 per week

■ DA3083 COMPOSITION 2 – ELECTIVE

The conceptual base of the medium and of the heuristic principles governing the making of dance; exploration of formal dynamic, temporal and spatial structures, deemed historically appropriate as a means of structuring movement and conveying a choreographer's intention. The power and responsibility of the artist; the finite possibilities for the interpretation of a work and ownership of choreographic works once they enter the public domain.

Prerequisite: DA3082

Credit Points: 10 **Contact Hours:** 4 per week

■ DA3084 TECHNIQUE, ANATOMY & ALIGNMENT – ELECTIVE

The basic contemporary dance vocabulary; study of Graham, Cunningham or Limon Technique with particular reference to development of strength, flexibility and placement of spine and limbs; basic combinations of movements; analysis of dance sequences; the anatomical structure and alignment techniques, their function and application to increase movement range and lessen dance injuries.

Credit Points: 20 **Contact Hours:** 7.5 per week

■ DA3085 DANCE IN EDUCATION

Study of philosophy of the arts in education and of dance in particular; role and profile of an arts educator; investigation of domains involved in arts learning.

Credit Points: 15 **Contact Hours:** 4 per week

■ DA3086 FOLK DANCE

A study of folk dances – their historical and cultural contexts; incorporating both practical and academic work.

Credit Points: 10 **Contact Hours:** 4 per week

■ DA3087 JAZZ & POPULAR DANCE

A study of the history and sociology of jazz and popular dance; examination of jazz and popular dance in the media; practical study of jazz and popular dance styles.

Credit Points: 10 **Contact Hours:** 4 per week

■ DP2800 PAINTING & DRAWING

Pictorial exercises based on colour, form, mass and space; drawing from the live model; appreciation; criticism.

Credit Points: 5 **Contact Hours:** 2 per week

■ DP2808 DRAWING

Practical studies in space and form, involving extensive studio work, history of drawing, gallery visits and analytical criticism of drawings, experimental graphic processes.

Credit Points: 5 **Contact Hours:** 4 per week

■ DP2809 DRAWING, PAINTING & PRINTMAKING 1

Drawing and painting as a means of exploring and developing images; exploration of printing technique, colour, surface scale and content; relief printmaking (lino cuts); planographic printing (monotype and paperprint); silkscreen printing (drawn and photographic images).

Credit Points: 8 **Contact Hours:** 3 per week

■ DP2810 DRAWING, PAINTING & PRINTMAKING 2

Continuation of DP2809 with exploration of at least one process approach or technique to an advanced level.

Prerequisite: DP2809

Credit Points: 8 **Contact Hours:** 3 per week

■ DP3001 DRAWING 1

Exploration of the nature of perception and the forming of concepts; analysis of modes of drawing; exploration of the nature and function of the mark in drawing.

Credit Points: 5 **Contact Hours:** 4 per week

■ DP3002 DRAWING 2

Continuation of DP3001 with emphasis on drawing as an art activity in its own right: the place of drawing in the contemporary context; interpretation of space, mass and volume; the mark as a symbol or referent; analysis of cartoons, comic strips, advertisements and visual illustrations to establish the relationship these forms of drawing have with each other, with art as a whole and with contemporary Australian society; comparison of 'high' art and 'popular' art; means by which the occupation of space and the passage of time are represented in contemporary drawing.

Prerequisite: DP3001

Credit Points: 5 **Contact Hours:** 4 per week

■ DP3003 DRAWING 3

Development of a comparative knowledge of drawing periods and styles; 'primitive' drawing; 'unsophisticated' drawings; refinement and adaptation of traditional forms in drawing; the impact of different cultural idioms in drawing upon each other; motives behind drawing; work involving other media.

Prerequisite: DP3002

Credit Points: 5 **Contact Hours:** 4 per week

■ DP3004 DRAWING 4

In consultation with lecturing staff students undertake a program of activities related to their progress as artist/advocate.

Prerequisite: DP3003

Credit Points: 5 **Contact Hours:** 4 per week

■ DP3005 DRAWING 5

Continuation of DP3004.

Prerequisite: DP3004

Credit Points: 5 **Contact Hours:** 4 per week

■ DP3006 DRAWING 6

Continuation of DP3005.

Prerequisite: DP3005

Credit Points: 5 **Contact Hours:** 4 per week

■ DP3701 ADVANCED PAINTING STUDIES

Exploratory work in space, form, colour and mass; foundations and implications of contemporary directions in painting; criticism and analysis.

Prerequisite: Artistic ability demonstrated in folio of work

Credit Points: 12 **Contact Hours:** 3 per week

■ DP3801 DRAWING

Examination of established systems of drawing by historical reference and exploration of materials; methods by which shape and volume can be determined by drawing techniques; the line as a means of expression and communication; methods and techniques for creating solid form by the use of various media; perspective; rendering; perceptual organisation and expressive effects; use of drawing for teachers who require visual expression and delineation within their areas. Incompatible with Art major at Diploma of Teaching (Secondary Art) level.

Credit Points: 12 **Contact Hours:** 3 per week

■ DP4002 PAINTING & DRAWING 1

Introducing and developing an active awareness of both historical and contemporary issues in painting and drawing through studio practice and tutorials; the knowledge and skills appropriate to the range of available media will be pursued in both studio classes and professional practice.

Credit Points: 12 **Contact Hours:** 3 per week

■ DP4003 PAINTING & DRAWING 2

Further development of traditional and experimental imagery through studio workshops, discussions and professional practice.

Credit Points: 12 **Contact Hours:** 3 per week

■ DR2801 CURRENT THEATRE

Visits covering the major Brisbane theatre companies involving discussions with actors or directors; visits to the major theatre company workshops in Brisbane; study of the plays concerned including the period and the playwright; introduction to relevant aspects of acting, directing and design; reviews.

Credit Points: 5 **Contact Hours:** 2 per week

■ DR2806 THEATRE GAMES

Study of a wide variety of theatre and drama games for their intrinsic interest and to demonstrate the ways in which a leader may choose and run games with a group; game theory; game leadership style; group dynamics; game sequencing.

Credit Points: 5 **Contact Hours:** 2 per week

■ DR2807 WORKSHOP THEATRE

Selection, rehearsal and performance of a short scripted play at workshop standard.

Credit Points: 5 **Contact Hours:** 2 per week

■ DR2808 DRAMA PROCESS & THEATRE

Individual, pair and group work in workshop sessions dealing with the drama process (role play, storytelling, movement, mime, improvisation, drama). Theatre styles: seminar presentations on realism and naturalism, the absurd, Brechtian theatre, theatre of cruelty, children's theatre.

Credit Points: 8 **Contact Hours:** 3 per week

■ DR2809 DRAMA PROCESS & CHILDREN'S THEATRE

The drama process and methodology: role play, storytelling, movement, mime, improvisation, drama.

Children's theatre: script, staging, child involvement and participation.

Prerequisite: DR2808

Credit Points: 8 **Contact Hours:** 3 per week

■ DR2814 COMMUNICATION THROUGH DRAMA

Voice and speech development; creative and developmental drama; interpretation of literature; group discussion techniques; oral skills of the classroom.

Credit Points: 5 **Contact Hours:** 3 per week

■ DR2816 PLAY PRODUCTION

Self-discovery at students' own level through drama; developing a character through textual study; preparation and presentation of a play as a group effort, including technical theatre aspects of a public performance.

Credit Points: 10 **Contact Hours:** 5 per week

■ DR2817 CHILDREN'S THEATRE

Analysis of children's theatre, its techniques, aims and values; preparation and presentation of a production for children; organisation of a school's tour.

Prerequisite: DR2814

Credit Points: 10 **Contact Hours:** 5 per week

■ DR2821 DEFINING DRAMA

The multivariate nature of drama; drama as an art form; relationships and role; early role taking abilities of children; the elements of drama; theatre study.

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3004 ACTING 1

Stanislavski: exercise work in realistic acting in order to eliminate bad habits and theatrical dishonesty. Realism: acting classes involving selected extracts from a modern realistic play, finding the playwright's truth, development of appropriate interpretive acting skills; Brecht: lectures and practice on distancing techniques.

Credit Points: 10 **Contact Hours:** 4 per week

■ DR3005 ACTING 2

Focus on Shakespeare; work on verse, small scenes and soliloquies.

Prerequisite: DR3004

Credit Points: 10 **Contact Hours:** 4 per week

■ DR3006 VOICE & MOVEMENT 1

Body awareness; sense of space; breathing; expression and articulation; text and context; research.

Credit Points: 10 **Contact Hours:** 4 per week

■ DR3007 VOICE & MOVEMENT 2

Awareness through movement; freeing the natural voice; development of holistic response to text; exploration of physical and emotional levels in characterisation; review of research relative to the study of voice and movement; alternative teaching styles; comparative analysis and personal synthesis.

Prerequisite: DR3006

Credit Points: 10 **Contact Hours:** 4 per week

■ DR3008 STAGECRAFT 1

Scenery construction; stage properties (budget and purchase procedures, hiring and borrowing, categorisation, storage and use); stage lighting (electricity, rigging and focusing of lanterns, maintenance and repairs, operating principles); stage costumes (hire of costumes, principles of pattern styling, use of sewing machine, fabric construction, the use of fabrics to create costumes).

Credit Points: 10 **Contact Hours:** 4 per week

■ DR3009 STAGECRAFT 2

Theatre sound: the need for sound effects, use of live and recorded effects, use of stage sound equipment. Stage management: the range of stage management tasks, the role of the stage manager in coordinating and enhancing theatre production. Basic lighting design: use of colour and lighting angles, 'painting' with light, computer controlled equipment, stage lighting organisation and documentation. Theatre administration: funding applications; front-of-house organisation, systems of ordering, purchasing, petty cash.

Credit Points: 10 **Contact Hours:** 4 per week

■ DR3012 DEVELOPMENT OF THEATRE 1

What theatre does and how it affects its audience; dramatic illusion; theatrical conventions; origins of theatre; Greek drama/theatre; medieval theatres in Europe; theatre in the Orient; theatre of the English Renaissance; theatre of the Italian Renaissance; royal theatre of France and England; England's popular theatre of the nineteenth century.

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3013 DEVELOPMENT OF THEATRE 2

Realism; naturalism; symbolism/expressionism; epic theatre; absurd; current theatre; South East Asian theatre; Australian theatre to World War 2; post-war Australian theatre; community theatre.

Prerequisite: DR3012

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3014 ELEMENTS OF DRAMA

Minimal drama (fiction plus tension); the three dimensions of expression (light/dark, movement/stillness, sound/silence); the three elements of dramatic form (space, time, communication); symbols and meaning; distance from the action; from ideas to communication.

Credit Points: 10 **Contact Hours:** 4 per week

■ DR3015 INTRODUCTORY THEATRE STUDIES

An introduction to shaping the theatrical event as director, designer, playwright.

Credit Points: 10 **Contact Hours:** 4 per week

■ DR3017 PLAYWRIGHTING

Dramatic structure (tension, climax and resolution; focus and audience distance); fitting an appropriate style to a dramatic theme; the relationship between action, theme and character; developing a scenario; imagery (the relationship between the visual and the linguistic); dramatic writing, dialogue and staging.

Prerequisite: DR3015

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3018 DIRECTING

Functions of the director from casting to rehearsal to performance; organisational procedures and relationship to other production staff; the director's role as intermediary between text, actor and audience; differing definitions of that role; personal style; project.

Prerequisite: DR3015

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3019 DRAMA PROCESS

Workshops involving individual, face-to-face and group role-play; participant enrolment, leader-in-role and intervention; identification with role; negotiation, devising and consequent decision making; the operation and management of dramatic tension and resolution; structuring for the theme and for the

dramatic moment; distancing devices; reflection, re-enactment and re-making.

Prerequisite: DR3014

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3022 DESIGN

Establishing the scene; staging alternatives; lighting and scenery; costume design; scale models and drawings.

Prerequisite: DR3008

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3023 THEATRE STUDIES OPTION

Specialised work in one of the theatre studies areas: directing, design, playwriting or theatre in education.

Prerequisites: DR3017, DR3018 and DR3022

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3025 PRACTICUM 1

Students are provided with an opportunity to practise as artists within a specific community and to participate in an artistic/advocacy project in the community. Elective studies influence the emphasis of the practicum, which will involve one of the three main communities identified: artistic, public, institutional.

Credit Points: 15

■ DR3026 PRACTICUM 2

See DR3025.

Prerequisite: DR3025

Credit Points: 15

■ DR3027 PRACTICUM 3

See DR3025.

Prerequisite: DR3026

Credit Points: 15

■ DR3028 ADVANCED DESIGN 1

Research project on the origins and development of design and theatre; practical design involvement in a Departmental production.

Prerequisite: DR3022

Credit Points: 10

■ DR3029 ADVANCED DESIGN 2

Analysis of the philosophy and practice of a specific designer; assignment to a major production as assistant designer.

Prerequisite: DR3028

Credit Points: 10

■ DR3031 DRAMA ACROSS THE CURRICULUM

Processed models of curriculum applied to drama method; drama methods for the classroom; dramatic contexts and power in the classroom; content analysis and planning; implementation of a lesson sequence based on dramatic action; preparation of curriculum materials. Compulsory study school for external students.

Prerequisite: CU3040 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ DR3035 ADVANCED DESIGN 3

Secondment as designer or associate designer to a professional, amateur or community theatre project (approximately 7 weeks).

Prerequisite: DR3029

Credit Points: 20

■ DR3036 ADVANCED DIRECTING 1

Research project on the origins and development of the role of the director; practical work assisting the director of a production.

Prerequisite: DR3018

Credit Points: 10

■ DR3037 ADVANCED DIRECTING 2

Analysis of the philosophy and practice of a major director; assignment to a major production as assistant director.

Prerequisite: DR3036

Credit Points: 10

■ DR3038 ADVANCED DIRECTING 3

Directing for film and television; secondment as director or associate director to a professional, amateur or community theatre project (approximately 7 weeks).

Prerequisite: DR3037

Credit Points: 20

■ DR3039 ADVANCED PLAYWRITING 1

Secondment to a major production within or outside the University as Dramaturg (researcher and interpretative consultant). Scriptwriting project.

Prerequisite: DR3017

Credit Points: 10

■ DR3040 ADVANCED PLAYWRITING 2

Study of a selected scriptwriting style. A major playwriting project in any dramatic medium.

Prerequisite: DR3039

Credit Points: 10

■ DR3041 INDEPENDENT STUDY: DRAMA

Students are required to devise an outline of study and/or action after negotiation and consultation with lecturing staff and carry out the approved program with regular tutorial consultation.

Credit Points: 20

■ DR3044 THEATRE PRODUCTION

Specific major tasks of acting or management duties for two or more productions by the Drama Department, requiring a high level of personal responsibility.

Credit Points: 40

■ DR3046 VOICE 2

The structure of blank verse; the development of English; importance of individual words and sounds in written and spoken texts; the use of performance space; development of voice and speech.

Prerequisite: DR3075

Credit Points: 5 **Contact Hours:** 2 per week

■ DR3047 VOICE 3

The structure of contemporary texts, including poetry, drama and narrative prose; radio technique and recording effective voice-overs; continued development of voice.

Prerequisite: DR3046

Credit Points: 5 **Contact Hours:** 2 per week

■ DR3051 ELEMENTS OF DANCE

Physical skills including: elongation of the spine; movement from the centre; alignment; articulation; opposition; lift and placement; basic combinations of locomotor movements; elements of dance; style; performance skills.

Credit Points: 5 **Contact Hours:** 2 per week

■ DR3052 DANCE STYLES

A range of dance styles and their corresponding conceptual and historical bases; performance skills; performance abilities.

Prerequisite: DR3051

Credit Points: 5 **Contact Hours:** 2 per week

■ DR3053 MUSICIANSHIP 1

Aural comprehension and notation of rhythm and pitch; vocal technique; principles of style.

Credit Points: 5 **Contact Hours:** 3 per week

■ DR3054 MUSICIANSHIP 2

Advanced study of the aural perception and notation of rhythm and pitch; introduction to the principles of harmony. Chord structure and chord progression; consolidation of personal vocal technique; style in vocal music performance.

Prerequisite: DR3053

Credit Points: 5 **Contact Hours:** 3 per week

■ DR3069 THEATRE GRAPHICS

The principles and practices of accurate research, including the design of questionnaires and surveys; use of appropriate software in the analysis of statistical information; report writing.

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3071 ARTS RESEARCH & EVALUATION 1

Accessing and collation of pertinent resources, critical observation techniques; case study methods.

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3072 PROFESSIONAL STUDIES

Theatre and Australian society; funding and status of Australian theatre; different manifestations (professional, amateur, community); historical patterns; models of initiatives in theatre; designing for a community need; preparing a curriculum vitae; job applications, meeting procedures.

Prerequisite: DR3013

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3073 ARTS RESEARCH & EVALUATION 2

Study of a major play in production (or other project involving performance) from one particular frame of reference.

Prerequisites: DR3071 and DR3072

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3074 PRACTICUM 3

See DR3025.

Prerequisite: DR3026

Credit Points: 10

■ DR3075 VOICE 1

The psychological and physiological underpinning of the voice; structure of texts; development of voice and speech; development of an introductory training program.

Prerequisite: DR3007

Credit Points: 5 **Contact Hours:** 2 per week

■ DR3076 MOVEMENT

Physical Theatre genres: Asian forms including Kabuki, Noh, Kalthakali; European forms including Greek, Commedia, Restoration. Movement arts: stage combat, T'ai Chi; acrobatics and tumbling.

Prerequisite: DR3007

Credit Points: 10 **Contact Hours:** 4 per week

■ DR3077 ACTING 3

Study of differing philosophies of theatre and their relation to performance; exercises and practical work on selected texts by Chekhov, and the Absurd or Theatre of Cruelty.

Prerequisite: DR3005

Credit Points: 10 **Contact Hours:** 4 per week

■ DR3078 ACTING 4

Introduction to the different techniques of acting for the camera; research, rehearsal and performance in one play.

Prerequisite: DR3077

Credit Points: 10 **Contact Hours:** 4 per week

■ DR3079 VOICE 4

Development of a research program in advanced vocal techniques; diagnosis of individual needs; analysis of the vocal technique of a number of professional actors and/or speakers in a range of settings; development of audition materials suitable for a variety of venues.

Prerequisite: DR3047

Credit Points: 5 **Contact Hours:** 2 per week

■ DR3081 THE PERFORMING ARTS ENVIRONMENT

Introduction to the context for performing arts management; economics of the arts; formation of national and state arts policy; interplay amongst arts organisations and related fields of endeavour like the media, the education system business and recreation.

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3082 MARKETING THE PERFORMING ARTS

General principles of marketing; applications in performing arts situations; planning, targeting, costing and implementation up to the point of sale contact in the front of house.

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3083 FINANCIAL MANAGEMENT IN THE PERFORMING ARTS

Planning and monitoring the use of money in the performing arts, including the preparation of funding submissions in not-for-profit situations.

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3084 ISSUES IN PERFORMING ARTS MANAGEMENT

Community arts development; legal matters; safety issues and selected current issues, eg, multiculturalism, tourism.

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3085 PRODUCTION PLANNING

Opportunity for students to apply the theory and practice learnt in other subjects to production situations; the planning and initial preparations for productions being undertaken in theatre production.

Credit Points: 10 **Contact Hours:** 3 per week

■ DR3086 TECHNICAL ASPECTS OF DESIGN

Analysis of text for design purposes – set, costumes and props; adapting to space; the influence of particular staging systems on design choices; scale drawings and models; lighting and the set.

Credit Points: 5 **Contact Hours:** 2 per week

■ DR3087 LIGHTING 1

Design theory; lighting control; communication in the production team.

Prerequisite: DR3009

Credit Points: 5 **Contact Hours:** 2 per week

■ DR3088 SOUND 1

Design theory; sound control; communication in the production team.

Prerequisite: DR3009

Credit Points: 5 **Contact Hours:** 3 per week

■ DR3089 STAGE MANAGEMENT

Coordination; pre-production planning; rehearsals; the bump in; technical rehearsal.

Prerequisite: DR3009

Credit Points: 5 **Contact Hours:** 3 per week

■ DR3090 LIGHTING 2

Advanced theory; procedures and planning; current practice.

Prerequisite: DR3087

Credit Points: 5 **Contact Hours:** 3 per week

■ DR3091 SOUND 2

Advanced design theory; procedures and planning; current practice.

Prerequisite: DR3088

Credit Points: 5 **Contact Hours:** 3 per week

■ DR3092 THE STAGE SET 1

Working drawings; costing and materials selection; safety procedures; construction.

Prerequisite: DR3009

Credit Points: 5 **Contact Hours:** 3 per week

■ DR3093 WARDROBE COORDINATION

Period costume; the psychology of dress; introductory design.

Credit Points: 5 **Contact Hours:** 3 per week

■ DR3094 THE STAGE SET 2

Advanced construction techniques; flying; stage mechanics.

Prerequisite: DR3092

Credit Points: 5 **Contact Hours:** 2 per week

■ DR3095 STAGE PROPERTY COORDINATION

Construction techniques; working drawings; elements of design.

Prerequisite: DR3009

Credit Points: 5 **Contact Hours:** 3 per week

■ DR3096 CHILDREN'S PLAY TO PERFORMANCE

The function of children's dramatic play, role taking and fantasy in social development from ages 1 to 18.

Credit Points: 10 **Contact Hours:** 4 per week

■ DR3097 THEATRE IN EDUCATION

The defining characteristics of theatre-in-education and participatory theatre forms; skills in group leadership, negotiation of ideas and forms, planning and conducting drama events; dynamics of leadership including management of space, time, energy levels and group rhythms. Fieldwork project, developing leadership skills as part of an existing piece of theatre-in-education.

Credit Points: 10 **Contact Hours:** 4 per week

■ DR3098 FORMING KNOWLEDGE

The approaches to art taken by major aestheticians; the characteristics and significance of the aesthetic field; the way the arts contribute to the development of mind and knowledge; various modes of knowing,

including propositional knowledge and tacit understandings.

Credit Points: 10 **Contact Hours:** 4 per week

■ DR3099 ADVANCED DRAMA PROCESS

The nature of experiential drama; pace and time; shape and externals; reflection and refraction; evaluation; devising process drama.

Credit Points: 10 **Contact Hours:** 4 per week

■ DR3100 RESEARCH PROJECT

Students undertake a substantial piece of supervised research after academic advisement. In some cases this might include practical work and associated seminars.

Credit Points: 40

■ DR3101 DRAMATURGY

Students investigate the roles of dramaturgy in western theatre. Major practical exercise as production dramaturgy on a current production.

Prerequisites: DR3071 and DR3072

Credit Points: 10 **Contact Hours:** 2 per week

■ DR3102 CONTEMPORARY AUSTRALIAN PLAYWRIGTS

Students study a number of current Australian playwrights; seminar papers focus on each writer, with input from directors, actors and writers.

Prerequisites: DR3071 and DR3072

Credit Points: 10 **Contact Hours:** 2 per week

■ DR3103 TEXTUAL ANALYSIS

Students extend the analytical framework undertaken in AR3006 in the application to dramatic texts. This includes consideration of interaction of various codes within a dramatic text, historical and cultural factors, additional codes operating in a film version of a play text, and the semiotic codes operating in dramatic performance.

Prerequisites: AR3006, DR3071 and DR3072

Credit Points: 10 **Contact Hours:** 2 per week

■ DR3104 GRADUATE SEMINAR

Students have a weekly seminar during their final semester where staff discuss current research interests, and students report on issues arising in their own thesis work.

Prerequisites: DR3071 and DR3072

Credit Points: 10 **Contact Hours:** 2 per week

■ DR3108 THEATRE PROJECT

Identification and practice of appropriate research, analytical and imaginative skills; rehearsal procedures; identification and practice of ensemble skills; personal expression; development of confidence and skill; roles and methodology inherent in designated stagecraft areas; articulation of the performance process.

Credit Points: 20 **Contact Hours:** 8 per week

■ DR3802 EDUCATIONAL DRAMA

Practical introduction to educational drama techniques available to all teachers (teacher-in-role, enrolment of students, dramatic exercises, analogies, simulations); fieldwork project: planning, teaching and evaluating a simple program. Incompatible with tertiary studies in drama or substantial experience in teaching drama.

Prerequisite: Relevant studies at Diploma of Teaching level or equivalent. All students must have access to a class of children.

Credit Points: 12 **Contact Hours:** 3 per week

■ DR5000 ARTS RESEARCH METHODS 1

The role and processes of research in the arts; defining the research tradition; qualitative research; emerging

arts research processes; reporting of research findings.

Credit Points: 12 **Contact Hours:** 3 per week

■ **DS5001 ARTS RESEARCH METHODS 2**

Focuses on the artist as researcher/teacher; the critic as assessor; and on the audience and community in which the art work is produced. An interpretive analysis of a major performance exhibition of art work.

Prerequisite: DS5000

Credit Points: 12 **Contact Hours:** 3 per week

■ **DS2800 LETTERING & LAYOUT**

Use of lettering pens and brushes in a variety of lettering styles; consideration of good lettering as it relates to graphic design and the visual environment; production of lettering charts; teaching charts; overhead transparencies; posters.

Credit Points: 5 **Contact Hours:** 2 per week

■ **DS2801 PRINTMAKING 1**

Exploration of a wide range of printmaking devices; (a) relief: preparation of a surface by addition (collage), and by subtraction (linoleum); (b) intaglio: acetate, engraving, paper drypoint.

Credit Points: 5 **Contact Hours:** 2 per week

■ **DS2805 PRINTMAKING 2**

Further development of technical skills introduced in DS2801, including collagraphs, relief and intaglio.

Prerequisite: DS2801

Credit Points: 10 **Contact Hours:** 2 per week

■ **DS3025 DESIGN STUDIES**

Art elements and principles; qualities of natural and non-natural materials; design process; design presentation; effects of changing technology on form and construction; ergonomics.

Credit Points: 10 **Contact Hours:** 4 per week

■ **DS4007 PRINTMAKING 1**

Relief printmaking – raised and incised blocks in lino; wood and glued materials; intaglio printmaking – etching, engraving, dry point and aquatint; planographic printmaking – lithography, monoprints and transfer prints; stencil printmaking – silk screening with cut, draw and photographic stencils; presentation of prints.

Credit Points: 12 **Contact Hours:** 3 per week

■ **DS4008 PRINTMAKING 2**

Continuation of DS4007. Motivational sources; creation and external applications of techniques and media related to printmaking; exploration of related art areas.

Prerequisite: DS4007

Credit Points: 12 **Contact Hours:** 3 per week

■ **DY3031 ADULT DEVELOPMENT & LEARNING**

Foundations of adult learning; the nature of the learning process; the context of adult learning; curriculum construction and program development.

Prerequisite: CU3040 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ **EC1003 MACROECONOMIC ANALYSIS**

The structure of the Australian economy; determination of income, employment and the price level; government policy in relation to aggregate labour market variables.

Credit Points: 12 **Contact Hours:** 4 per week

■ **EC1004 ELEMENTS OF LABOUR ECONOMICS**

Price theory and its application to the Australian labour market – demand and supply of labour; determination of wages and employment; factors influencing the relative wage structure.

Credit Points: 12 **Contact Hours:** 4 per week

■ **EC1006 POLITICAL ECONOMY OF AUSTRALIA**

An overview of Australia's political economy; the processes and interest groups which affect the formulation and implementation of government policy; an introduction to important contemporary issues in the political economy of Australia.

Credit Points: 12 **Contact Hours:** 4 per week

■ **EC3025 ECONOMICS**

The role of the economic system in promoting economic growth and in allocating resources; economic growth and social well-being; the market system and market failure; the public sector and public finance; the macroeconomy; money and the economy.

Credit Points: 10 **Contact Hours:** 4 per week

■ **EC3028 ECONOMICS 1**

Basic economic principles and concepts; introduction to microeconomics: demand curves and demand functions; elasticity of demand; supply curves and supply functions; elasticity of supply; pricing under competition and monopoly; introduction to macroeconomics: national accounting concepts; aggregate supply and aggregate demand; inflationary and deflationary gaps; the multiplier.

Credit Points: 12 **Contact Hours:** 4 per week

■ **EC3029 ECONOMICS 2**

Macroeconomics: cardinal and ordinal utility theory; the theory of production and costs in the short-run and the long-run; short-run and long-run adjustment under perfect competition and monopoly; regulation of monopolies; macroeconomics: the theory of income determination in a three and four sector economy, international trade and the balance of payments; IS-LM curve analysis.

Prerequisite: EC3028

Credit Points: 12 **Contact Hours:** 4 per week

■ **EC3030 INTERNATIONAL ECONOMICS**

Concepts of international trade; price theory of international trade; systems of adjustment of balance of payments; theory of foreign exchange; future of Australia's trade relations with Japan, China and South East Asia.

Prerequisite: EC3029

Credit Points: 12 **Contact Hours:** 4 per week

■ **EC3040 INTRODUCTION TO ECONOMICS**

Fundamental economic concepts; application of concepts, principles and models to economic problems; interpretation and application of economic statistics and graphs; analysis and evaluation of current issues, problems and policies in economics.

Credit Points: 10 **Contact Hours:** 3 per week

■ **EC3041 MICROECONOMICS**

Key analytical concepts of microeconomics; application of microeconomic models in the examination and analysis of the activities of consumers, business, trade unions and government agencies in the Australian economy; analysis and evaluation of current

microeconomic issues and policies; private and public sector utilisation; utilisation of principles.

Prerequisite: EC3040

Credit Points: 10 **Contact Hours:** 3 per week

■ EC3042 MACROECONOMICS

Macroeconomic study defined in terms of problems, content and methods; application of appropriate principles and models to macroeconomic problems; interpretation, design and application of diagrammatic and econometric models; current issues and policies of the Australian macroeconomy; differentiation of schools of thought on policy choice of the Australian macroeconomy.

Prerequisite: EC3040

Credit Points: 10 **Contact Hours:** 3 per week

■ EC3043 INTERNATIONAL ECONOMICS

Introduction to international trade and finance; identification, explication and application of appropriate concepts in the study of international economics; interpretation and analysis of events in international economies, especially as they relate to the Australian context; theories of trade and protection; economic integration; balance of payments; foreign exchange markets; international monetary system; and international economics education.

Credit Points: 10 **Contact Hours:** 3 per week

■ EC3044 ECONOMIC DEVELOPMENT

Evolution of development and global education; meanings and measures of economic development; schools of economic development thought; human resources and development; economic and social dualism; resource systems and development; international trade, finance and development; global interdependency and dependency; development policies and planning; economic development studies and international understanding.

Credit Points: 10 **Contact Hours:** 3 per week

■ EC3045 COMPARATIVE ECONOMIC SYSTEMS

Comparative study as an educational tool; methods of comparing economic systems; systemic factors and economic performance; cross culture transfer of economic systems; socialist planning; socialist and economic reforms; planning in a market economy; structural change and economic development; comparative economic systems and international education.

Credit Points: 10 **Contact Hours:** 3 per week

■ EC3046 AUSTRALIAN POLITICAL ECONOMY

Political economy; definition; theories; World Systems Theory; Dependency Theory; Theories of Development; Australia and historical development; 'settler' democracy, core/periphery model of British Empire; structural re-adjustment of financial and industrial world capital/labour markets in twentieth century (Jiro Tokuyama, E. Mandel, Trilateral Commission, K. Hopkins/I. Wallerstein); free trade monetarian and import replacement Protectionism; the effect on Australian political economy of the present four bloc world system – EEC, USA/Canada, Japan 'Yen' block, USSR.

Prerequisite: EC3040

Credit Points: 10 **Contact Hours:** 3 per week

■ EC3047 RESOURCES PLANNING & DEVELOPMENT

The social, economic and political implications of the distribution, management and consumption of resources;

evaluation of the impact of resources development on social and economic well-being and environmental quality; clarification of the concept of a just society in terms of resources development.

Prerequisite: EC3040

Credit Points: 10 **Contact Hours:** 3 per week

■ EC3048 ASIAN ECONOMIES

Asian economies and Australia's links with them; economics of China, Japan, Korea, ASEAN; foreign aid; trade relationships.

Prerequisite: EC3040

Credit Points: 10 **Contact Hours:** 3 per week

■ EC3050 CONSUMER STUDIES

The nature of the consumer society in the Australian economy; the interdependent roles of the consumer, business and the government; consumer behaviour; consumer products and services; marketing and advertising; managing consumer finances and the wise use of credit; consumer protection; current consumer issues; and educating the consumer.

Credit Points: 10 **Contact Hours:** 3 per week

■ ED2094 CLASS PROGRAM DEVELOPMENT

Curriculum design and models; curriculum concepts; the primary curriculum; curriculum components (objectives, content, methodology, evaluation); curriculum development; school and classroom curriculum processes.

Credit Points: 8 **Contact Hours:** 3 per week

■ ED2334 UNDERSTANDING CHILDREN: DEVELOPMENT

Perspectives on development and learning; understanding children; fundamental issues in child development; contexts of human development; aspects of development (physical, language, cognitive, personality, social, moral); motivation and development; abnormal development; research literature.

Credit Points: 10 **Contact Hours:** 3 per week

■ ED2335 UNDERSTANDING CHILDREN: LEARNING

Contemporary explanations of the nature of learning; the importance of learning theory in the development of teaching methods; motivation and learning; personality and learning; self-concept and learning; assessment of learning; intelligence; creativity; exceptionality; social behaviour; the research process.

Credit Points: 10 **Contact Hours:** 3 per week

■ ED2336 SOCIAL, SCHOOL & POLITICAL CONTEXTS

The social context: role of the school in promoting society's educational goals; nature of society and its structures; the social processes that operate in schools. The school context: society's educational expectations of schools; organisational aspects of the school as a basis for considering teacher expectations, pupils' experiences, and control; models of schooling, functions and characteristics of schools. The political context: political decision making and its effects on schools; ideologies underlying educational practices; operation of power in various educational settings.

Prerequisites: ED2334 and ED2335

Credit Points: 10 **Contact Hours:** 3 per week

■ ED2337 CULTURAL, LEARNING & FUTURE CONTEXTS

The cultural context: Australia as a multicultural society, culture and education; schools as agents of cultural reproduction; school responses to cultural groups. The learning context: views of learning,

teaching and learning, education and learning; learning processes and environments, freedom; models of teaching and learning, learning contexts. The future context: the contribution of the school in an era of change; diversity in education, work and non-work, lifestyles; learning in the future; computers in education; learning to cope with change.

Prerequisites: ED2334 and ED2335

Credit Points: 10 **Contact Hours:** 3 per week

■ ED2338 ISSUES OF KNOWLEDGE, POWER & QUALITY/EQUALITY

The nature and place of knowledge in education; power as an initiating, organising and maintaining influence in education; equality seen as equality of educational opportunity; poverty and the schools; rural education; groups and sexism and interacting with quality as a primary criterion in education.

Prerequisites: ED2334, ED2335, ED2336 and ED2337

Credit Points: 10 **Contact Hours:** 3 per week

■ ED2339 ISSUES OF VALUES, COMPETITION & CHANGE

Values: bases of moral and religious values, conflicting moral and cultural values, pluralism of values and professional considerations for teachers, aesthetic values in the school, taboos; moral and affective education, religious education, sex education, political education, pressure groups. Competition: the relative merits of competition, cooperation and individualisation as teaching/learning strategies; rational bases for synthesising; preferences of values. Change: nature and reality of change; understanding its dynamic: responses to mastery of change in self, others, workplace and community.

Prerequisites: ED2334, ED2335, ED2336 and ED2337

Credit Points: 10 **Contact Hours:** 3 per week

■ ED2345 EDUCATION & THE FAMILY

The family as the primary socialising agent where children are concerned; various family patterns as they relate to social class, geographical location, and the multicultural nature of Australian society; the influence of changing social conditions on the modern family.

Credit Points: 10 **Contact Hours:** 3 per week

■ ED2352 EDUCATION & SCHOOLING

The school within the community and the school as a community; transition from home to school; school-community interaction; alternative schooling; overt and hidden curricula; educational measurement; the difference between education and schooling.

Credit Points: 10 **Contact Hours:** 3 per week

■ ED2357 EDUCATION & SOCIETY 1

Relationships between the school and the wider society; Australian education systems: societal, system and intra-school pressures on school administrators; social class and attitudes (particularly racial attitudes) and their relationship to the concept of equality of educational opportunity.

Prerequisite: ED2352

Credit Points: 10 **Contact Hours:** 3 per week

■ ED2358 EDUCATION & SOCIETY 2

Specific concerns within education today; the effect of social change (particularly in technology and the nature of work) on education; the effect of mass media on education; teachers and the law.

Prerequisite: ED2357

Credit Points: 10 **Contact Hours:** 3 per week

■ ED2365 FAMILIES IN CRISIS

The differing crisis situations which confront families in modern, industrialised societies; facets of children's lives which affect behaviour in the early years; meeting appropriately the needs of children from families in crisis situations.

Prerequisite: ED2345

Credit Points: 10 **Contact Hours:** 2 per week

■ ED2366 PHILOSOPHY & YOUNG CHILDREN

Children as philosophers; children with the capacity to philosophise; implications for the early childhood 'curriculum', and the nature of the learning environment provided.

Prerequisite: ED2345

Credit Points: 10 **Contact Hours:** 2 per week

■ ED2367 THE IMAGE OF CHILDHOOD

The nature and image of childhood and how it has changed over the centuries; the nature of the child and education theory; implications for teachers at all levels of education, but especially early childhood teachers.

Prerequisite: ED2345

Credit Points: 10 **Contact Hours:** 2 per week

■ ED2368 SOCIOLOGY OF PARENTHOOD

The notion of parenting in general and the parental role in particular; the changes that have occurred in child rearing practices, patterns of socialisation and aspects of social legislation pertinent to the family as a social unit.

Prerequisite: ED2345

Credit Points: 10 **Contact Hours:** 2 per week

■ ED2369 ALTERNATIVE EDUCATION

Problems confronting conventional schooling; various modes of alternative education; alternative modes of education which are available in early childhood education.

Prerequisite: ED2352

Credit Points: 10 **Contact Hours:** 2 per week

■ ED2370 GENDER, SCHOOL & SOCIETY

The nature of sex roles in Australian society and the ways in which these are reinforced and perpetuated in the family, the media, and in particular the school; strategies for combatting discrimination in the school; the work-life patterns of teachers.

Prerequisite: ED2352

Credit Points: 10 **Contact Hours:** 2 per week

■ ED2371 SCHOOLS & COMMUNITIES

The range of interrelationships between schools and their communities; skills and techniques for analysing school-community relationships; case studies; student involvement in fieldwork and the development of appropriate practical skills.

Prerequisite: ED2352

Credit Points: 10 **Contact Hours:** 2 per week

■ ED2372 SOCIALISATION THROUGH PLAY

The socialisation of a child in both the home and the school; socialisation through play, both individual and in the form of a game; study of socialisation through the medium of play.

Prerequisite: ED2352

Credit Points: 10 **Contact Hours:** 2 per week

■ ED2373 LEGAL ISSUES & THE TEACHER

The nature of 'education law' as it affects the teaching of children in the early and lower school; analysis of legal rights and obligations as these affect teachers,

children and parents; custody and access; discrimination, school discipline, supervision and administrative practices.

Credit Points: 10 **Contact Hours:** 2 per week

■ ED2600 ANALYSIS OF TEACHING & LEARNING

Constructional objectives; the planning of learning episodes; evaluation of pupil progress; organisational decisions affecting children; the decision-making process in primary classrooms; personal and professional qualities considered desirable for teachers; preparation, implementation and analysis of teaching; teaching sequences and teaching skills.

Credit Points: 8 **Contact Hours:** 3 per week

■ ED2601 COMMUNICATION PROCESSES IN THE CLASSROOM

Theories of communication; verbal and non-verbal behaviour; interpersonal interaction; the expository/discovery continuum; application of communication skills to the teaching/learning process.

Credit Points: 8 **Contact Hours:** 3 per week

■ ED2602 EDUCATIONAL TECHNOLOGY & THE CLASSROOM

Applications and innovations in educational technology; instructional design; educational problems; context of classroom; teachers as users of educational media; print and non-print resources; computers; future development.

Credit Points: 8 **Contact Hours:** 3 per week

■ ED2603 CONTEXTS FOR TEACHING & LEARNING

The concept of teaching the individual learner; learning groups; the open classroom; the autonomous learner.

Prerequisites: ED2600, ED2601 and ED2602

Credit Points: 8 **Contact Hours:** 3 per week

■ ED2604 DEVELOPING CHILDREN'S POTENTIAL

Identifying the high-potential learner; individual program planning; major issues in current literature; creativity; the parent/teacher partnership; interpersonal communication skills; information sharing.

Prerequisites: ED2600, ED2601 and ED2602

Credit Points: 8 **Contact Hours:** 3 per week

■ ED2605 CHILDREN WITH LEARNING PROBLEMS

Rationale for intervention programs; categories and causes of learning problems; principles of diagnosis and remediation; strategies and programs for children with learning problems; socio-emotional problems influencing learning; the concept of the professional team.

Prerequisites: ED2600, ED2601 and ED2602

Credit Points: 8 **Contact Hours:** 3 per week

■ ED2700 CONTEXTS FOR TEACHING & LEARNING (E.E.)

Teaching and learning in early childhood education; the concept of early teaching; the individual learner; grouping techniques; techniques for the management and control of groups; the open classroom; approaches for delimiting the learner.

Credit Points: 8 **Contact Hours:** 3 per week

■ ED2703 ISSUES IN EDUCATION

The question of quantity in early education: age for beginning formal education; accelerated teaching programs; human development and curriculum development; premature emphasis on basic learning

skills; intellectual stimulation or emotional security. The goals of early education: philosophical, sociological and psychological influences on goals; cognitive, affective and psychomotor goals; the selection of goals; translation of goals into classroom experiences; the curriculum (integrated or undifferentiated).

Credit Points: 10 **Contact Hours:** 3 per week

■ ED2704 INTEGRATED CURRICULUM DEVELOPMENT

Sources of early curricula; curriculum models; integrated curriculum development for early education; developing curricula for children with special needs.

Credit Points: 8 **Contact Hours:** 3 per week

■ ED2705 EARLY EDUCATION CLASSROOM PROCESSES

The functions of the teacher of young children; creating a challenging and healthy learning environment; enhancing development through play; enhancing language and thinking; enhancing affective development; enhancing aesthetic development; extension of the teacher's professional development.

Credit Points: 8 **Contact Hours:** 3 per week

■ ED2706 EARLY EDUCATION: HUMAN DEVELOPMENT

Early doctrines of child development; the ecology of human development; personality development; physical and social development; the development of cognition and perception; language development; moral development; aesthetic development; the child's world; methods of studying children.

Credit Points: 4 **Contact Hours:** 1 per week

■ ED2707 ADMINISTRATION PROCESS IN EARLY EDUCATION

The leadership role in the planning, implementation and evaluation of early education programs; the diverse roles of the early childhood educator; the leadership role and the administration of early childhood centres; review and refine the philosophy, policy and practice of early education.

Credit Points: 4 **Contact Hours:** 1 per week

■ ED2800 MOTOR SKILL ACQUISITION IN TAFE

Teaching models used in trades; development of refined techniques to improve existing practices; safety aspects related to bending, lifting etc. in specific work areas; perceptual motor concepts of adolescence; application of concepts to assessment criteria and remediation; fine motor development.

Credit Points: 8 **Contact Hours:** 3 per week

■ ED3028 INDEPENDENT STUDY

Self-initiated and self-directed academic study in an area of interest which allows study either to a depth not possible in electives, or in an area not covered by the current Bachelor of Education program. An independent study can be taken by any student who has completed, or will have completed, 4 subjects of the course, and meeting certain requirements laid down in the 'Independent Study Guide'.

Credit Points: 12

■ ED3031 CRITICAL ANALYSIS OF SCHOOLING

Application of sociological theories to the analysis of selected developments in Australian education during nineteenth and twentieth centuries; the traditional and revisionist explanations for state involvement in education, exploration of links with contemporary issues such as meritocratic versus reproduction views

of schooling; sociology of the curriculum; inequality of educational opportunities.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3032 ISSUES IN ABORIGINAL EDUCATION

Educational implications of the historic, economic and political factors relating to the position of Aborigines in Australian society; theoretical approaches to culture, language and learning; classroom strategies; curriculum issues; Aboriginal studies; policies and programs in Aboriginal education including separate schooling; Aboriginal participation and meeting community needs.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3033 CRITICAL PERSPECTIVES ON SCHOOL KNOWLEDGE

Selection of classroom knowledge; the epistemological aspects; sociology of knowledge; historical perspectives on the curriculum; teachers and texts; curriculum debates; politics of school knowledge; academic freedom and 'dangerous knowledge'.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3037 TEACHING & CLASSROOM CONTEXTS

The culture of the school, the culture of the classroom, teachers' culture and students' subcultures; ethnographic approaches and other strategies to assist understanding of classroom dynamics; the social organisation of schools and critical reflection about the teaching process; practical implications for teaching.

Prerequisites: SY3013, SY3014 and ED3053

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3038 EMPOWERING TEACHERS FOR SCHOOL-BASED CHANGE

Theoretical and practical study of the various contexts in which school-based change occurs; the role of research. Teachers as researchers and developers to engage in school-based change and development of school programs; reflective practitioners in a decision-making partnership with students, parents, community members and administrators.

Prerequisites: SY3013, SY3014 and ED3053

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3040 GENDER & CURRICULUM

The impact of Federal, State and local curriculum policy on girls and women; implications of current curriculum theory for future policy development; implementation of programs modelling principles of gender equity and personal empowerment.

Prerequisites: SY3013 and SY3014

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3041 TEACHERS, CAREER & GENDER

The historical development of the perception of teaching as women's work; the concept of reproduction among others and its application to the sexual division of labour in teaching; women's career paths, and the concept of career. Careers, cultures and strategies; are 'career changes' structurally imposed or individually chosen? The tasks, skills and qualities of coordinators

are investigated as a process of 'situational adjustment'. Performance appraisals, sponsors and school micropolitics are critically examined in an attempt to raise consciousness and empower women. Women's own views and experiences are highlighted.

Prerequisites: SY3013 and SY3014

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3042 RADICAL EDUCATION

Examination of educational modernists like Dewey and Montessori and their influence on conventional schooling; beginnings of the libertarian tradition (Tolstoy) and the development of the free school (Neill, Dora Russell); the emergence of an organic form of teaching and learning (Sylvia Ashton-Warner) and the subsequent development of critical pedagogy; the work of the deschoolers (Ivan Illich) and early liberatory learning theory (Freire); examination of contemporary critical pedagogy (Giroux, Shor) and its application in working class schooling in Australia and the USA.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3043 TACKLING EDUCATIONAL PROBLEMS: INTERNATIONAL PERSPECTIVE

Uses of comparative studies in education; how selected countries in capitalist and socialist, developed and developing economic systems experience and perceive the connection between education, socio-economic problems and national development. Area studies may be selected from the following groups: England, Australia and Canada; France, West Germany and the German Democratic Republic; the U.S.A. and the Soviet Union; Cuba, Jamaica, Papua New Guinea and Singapore; China and India; South Africa and Tanzania or Zimbabwe.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3044 EDUCATORS & THE LAW

Legal institutions in Australia, basic legal terminology as it applies to teachers; legislation and decided cases in common law particularly as they relate to negligence issues; links to teacher practice; appropriate management and teaching strategies consequent upon statute and common law.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3045 SCHOOL-COMMUNITY RELATIONSHIPS

The issue of community empowerment and individual empowerment; developments in community involvement in Queensland and elsewhere in Australia; school-community issues: school-based budgeting, the role of school advisory councils, the Education Acts; regionalisation and devolution; the role of the Principal and of teachers; community relations skills.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3046 PERSONAL PHILOSOPHY OF EDUCATION

The modes and methods of philosophy as these relate to the philosophy of education; traditional and modern concepts of education in their social and cultural context; challenges students to critically examine the assumptions underlying their current approach to

teaching; development of a personal philosophy of education.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3047 TEACHERS AS LEADERS

Approaches to leadership which are based on perspectives of cultural analysis and critical theory; examination of practices involving consultation and cooperation; practical applications of approaches.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3048 POWERFUL TEACHING 2

The notion of the professional empowerment of the secondary school teacher through the use of analytical tools that draw on critical pedagogy; examination of practical classroom problems such as discipline, assessment, equity, literacy; teaching role in raising consciousness of social contexts and possibilities; empowerment through collaborative learning and social awareness.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3049 TEACHERS & STUDENTS: FROM ALIENATION TO EMPOWERMENT

The philosophical and sociological background to the state of 'learned helplessness' and consequent sense of alienation apparent in areas of the student population; 'educational' structures and processes which generate such alienation in students; alternative models which empower rather than disempower.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3050 TECHNOLOGY & EDUCATION FUTURES

The phenomenon of under-education; post-industrial economies and modern educational needs; implications of satellite technology in distance education; exploration of alternative education futures creatively utilising computer and media technologies in achieving aims of peace, social justice and balanced progress in the humanities, sciences and art.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3053 EDUCATION & SOCIETY

The social context of education; the role of education in society; 'making sense' of the world.

Prerequisites: SY3013 and SY3014

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3054 EDUCATION FOR TRANSFORMATION

The concept of holism; holistic teaching as a transformative model; the holistic alternative.

Prerequisites: SY3013, SY3014 and ED3053

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3055 TEACHERS AS MEDIATORS OF CHANGE

The teacher as an agent of change in the classroom; learning experiences which meet the needs of a changing world.

Prerequisites: SY3013, SY3014 and ED3053

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3056 POWERFUL TEACHING 1

Integration of socially critical educational theory with professional practice; distinguishing between authoritative and authoritarian teacher behaviour in the classroom; power relations in the school and the classroom.

Prerequisites: SY3013, SY3014 and ED3053

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3057 APPROACHES TO TEACHING

Preparation of students for their first extended period of school teaching experience; consideration of the variety of approaches to teaching.

Prerequisites: SY3013, SY3014 and ED3053

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3058 DEVELOPMENTS IN AUSTRALIAN EDUCATION

The development of Australian education particularly from the time of European settlement; the conflict between church and State; the rise of free and compulsory elementary education; the movement of the State into secondary schooling and eventually the establishment of universal junior secondary education.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3059 WHO'S INTELLIGENT: HOW SCHOOLING DECIDES

The origins of the ideology of intelligence; its development in the public mind; and its manifestation through schooling practices.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3060 ASSESSMENT THEORY & PRACTICE

Analysis of assumptions underlying norm-referenced and criterion-referenced assessment; the purposes for which assessment may be used; tertiary entrance; modern developments in assessment and implications for teaching; disadvantages and pitfalls of various assessment techniques.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ ED3303 CONTEMPORARY ISSUES IN EDUCATION

Society, schools and teaching in an age of change studied from the perspectives of educational psychology, philosophy of education and sociology of education; critical evaluation of educational policy; application of principles of social justice to participation and equity; pluralism and social cohesion including education for a multicultural Australia and the education of exceptional children; evaluation of changing roles and responsibilities of teachers.

Credit Points: 12 **Contact Hours:** 3 per week

■ ED3304 STUDENTS, TEACHERS & KNOWLEDGE

Contemporary theories of knowledge (empiricism, rationalism, intuition, indoctrination, logic, reason, deduction, commonsense, scientific method); knowledge, ideology and schooling; schooling and its outcomes.

Co/Prerequisite: ED3303 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ **ED3305 SECONDARY EDUCATION TODAY**

Consequences of universal secondary schooling; school and work; transition initiatives, career education, link courses, work experience programs. Alternatives in secondary schooling; recent developments in secondary school discipline areas.

Credit Points: 12 **Contact Hours:** 3 per week

■ **ED3705 SCHOOL ORGANISATION & DEVELOPMENT**

Overview of educational administration; educational leadership; organisational development; organisational communication; issues and problems for educational administrators.

Credit Points: 12 **Contact Hours:** 3 per week

■ **ED3706 THE COMMUNITY & SCHOOL ADMINISTRATION**

The context of the community and the school; the practice of community education at various educational levels; community education, strategies for teachers (content analysis, public relations, delphi, force-field analysis etc.).

Credit Points: 12 **Contact Hours:** 3 per week

■ **ED3707 EDUCATIONAL RESEARCH & PRACTICE**

Introduction to educational research and practice; preparing for research; data collection techniques applicable to either quantitative or qualitative research methodologies; analysis and interpretation of evidence; reporting.

Prerequisite: Studies in applied curriculum

Credit Points: 12 **Contact Hours:** 3 per week

■ **ED3809 COMPARATIVE EDUCATION**

The relationship between development and education in developing countries: case studies, for example, of Singapore, P.N.G., China; comparisons with and implications for Australia.

Credit Points: 12 **Contact Hours:** 3 per week

■ **ED3810 HISTORY OF AUSTRALIAN EDUCATION**

The growing involvement of the state in education during the nineteenth century; factors which led to the state accepting responsibility for elementary education; growth of educational bureaucracies; state involvement in secondary education; establishment of tertiary education in Australia; the influence of particular reports on Australian education.

Prerequisite: Relevant studies at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ **ED3811 INTERNATIONAL EDUCATION FIELD STUDY**

Purposes and uses of comparative studies; comparative method; education and social development; observation of the cultural factors which influence the kind of education which another society has evolved; analysis and interpretation of observations; comparison with the Australian situation. (Overseas field study of two weeks duration during June or September vacation.)

Credit Points: 12 **Contact Hours:** 3 per week

■ **ED3812 EDUCATION FOR A MULTICULTURAL SOCIETY**

Theoretical issues (pluralism, ethnicity); majority and minority cultures in Australia; immigration; social attitudes and educational policies; evaluation of effects of discrimination, prejudice and ethnocentrism

in schools; schools and multiculturalism; the role of the teacher in multicultural education.

Credit Points: 12 **Contact Hours:** 3 per week

■ **ED3813 ISSUES IN ABORIGINAL EDUCATION**

Factors influencing the position of Aborigines in Australian society; government policies; Aboriginal culture and education; current initiatives in Aboriginal education; participation of Aborigines in policies and programs.

Credit Points: 12 **Contact Hours:** 3 per week

■ **ED4080 CLASS PROGRAM DEVELOPMENT**

Curriculum design and models; curriculum concepts (the primary curriculum, curriculum components); curriculum development; school and classroom curriculum processes.

Credit Points: 4 **Contact Hours:** 1 per week

■ **ED4096 CURRICULUM FOR YOUTH WITH SPECIAL NEEDS**

Introduction to curriculum development and situational/self analysis; innovative program approaches; changing ourselves and school environments; evaluation of curriculum development; resource teacher support for school-based curriculum development, student assessment, participation and equity programs; communicating information about improved programs.

Credit Points: 10 **Contact Hours:** 3 per week

■ **ED4097 SOCIO-CULTURAL ISSUES IN EDUCATION**

Examination of structural and organisation aspects of the school arising in the hidden curriculum; impact of the local community on school/college life, including multiculturalism, community relations, responses to family crises; innovation and change arising in schools in response to the above factors.

Credit Points: 10 **Contact Hours:** 3 per week

■ **ED4310 HUMAN DEVELOPMENT & LEARNING**

Theoretical orientation to contemporary educational issues and concepts: the basic assumptions underlying educational practices and theories, the relationship between the educational system and the broader society, the future directions that education may take, and the psychological and sociological aspects of child development.

Credit Points: 8 **Contact Hours:** 3 per week

■ **ED4311 CONTEMPORARY EDUCATIONAL ISSUES & PRACTICES**

Teaching programs and resources: teachers and the instructional program; the teacher and resources (computers, teaching kits, learning centres, community participation). The teacher and pupils (pre-primary, primary and early adolescence): the normal pupil; the exceptional pupil. Community and the professional dimensions of teaching: the teacher and the community; the teacher as a professional.

Credit Points: 8 **Contact Hours:** 2 per week

■ **ED4312 INTRODUCING MOVEMENT EDUCATION**

The content of physical education in primary schools; identification of approaches to physical education; consideration of structural models and syllabuses in use; the relationship of movement education to total curriculum program planning.

Credit Points: 4 **Contact Hours:** 1 per week

■ ED4600 ANALYSIS OF TEACHING & LEARNING

The teaching process (planning, implementation and evaluation); models of communication (verbal and non-verbal behaviour); decisions in the teaching/learning process; skills involved in the teaching/learning process.

Credit Points: 8 **Contact Hours:** 3 per week

■ ED4601 DEVELOPING CHILDREN'S POTENTIAL

Development of individualised programs to foster the abilities of each child and develop parental participation in education: learning style and learning performance, socio-emotional problems influencing learning and their management, interpersonal communication, parent-teacher partnership and the professional team.

Credit Points: 12 **Contact Hours:** 4 per week

■ ED4602 CONTEXTS FOR TEACHING & LEARNING

The concept of teaching; learning groups; teaching styles; the open classroom; the autonomous learner; print and non-print resources; selection, production and utilisation of resources.

Credit Points: 8 **Contact Hours:** 2 per week

■ ED4604 ANALYSIS OF TEACHING & LEARNING

Personal theories of teaching; the teaching-learning process; basic teaching skills; educational software, lesson preparation and lesson plans; professional attitudes.

Credit Points: 8 **Contact Hours:** 2 per week

■ ED5006 STUDY DESIGN

Introduction to the design of advanced educational studies and investigations; examination of those research and/or study paradigms appropriate to their specialised interest area; development of rationale that will lead to the development of their practicum program.

Prerequisites: ED5019 and ED5020

Credit Points: 12 **Contact Hours:** 3 per week

■ ED5007 STUDY METHODOLOGY

Definition of a study model from the rationale developed in ED5006; further reading related to the implementation of the study; development of a comprehensive methodology that will enable them to move directly into the practicum subjects.

Prerequisite: ED5006

Credit Points: 12 **Contact Hours:** 3 per week

■ ED5008 PREPARATION FOR APPLIED STUDY

Building upon the relevant study design and methodology to establish the materials for the applied study; the appropriate refinement of the indepth study so that it is ready for use in the most suitable educational setting; may include a pilot study that will involve the initial development and trial of the strategy, materials, instrument or activity to be implemented in the indepth study.

Prerequisite: ED5007

Credit Points: 12 **Contact Hours:** 3 per week

■ ED5009 APPLIED STUDY

The refinement and implementation of the developed strategy/instrument/activity/materials in the carefully selected, appropriate education setting; collection of adequate data which when analysed will provide sufficient evidence of the usefulness or otherwise of the

selected strategy/instrument/activity/materials for promoting change in some aspect of education.

Prerequisite: ED5008

Credit Points: 12 **Contact Hours:** 3 per week

■ ED5010 SUMMARY OF APPLIED STUDY

A comprehensive evaluation report of the applied study; a synthesis of the work carried out in the individualised specialisation studies of the course as they relate specifically to the indepth study; a demonstration of the basis for the indepth study, an analysis of its implementation and its potential for promoting change in education.

Prerequisite: ED5009

Credit Points: 48 **Contact Hours:** 12 per week

■ ED5015 THE SOCIO-CULTURAL CONTEXT OF EDUCATION

Historical, philosophical and socio-cultural perspectives to understand the context in which education occurs in contemporary Australia; interrelationships of individuals to society, with particular regard to class, race, ethnicity and gender, and to the cultural processes through which social inequalities are reproduced and transformed; the political, ideological and economic context of relevant policy development, implementation and evaluation.

Credit Points: 12 **Contact Hours:** 3 per week

■ ED5016 LEARNING & LEADERSHIP

Understanding of learning; the factors which influence learning and individual behaviour; dynamics of human interaction in learning environments; cognition and learning across the lifespan.

Credit Points: 12 **Contact Hours:** 3 per week

■ ED5017 LEADERS IN CHANGING CONTEXTS

Understanding of leadership in the 1990s; the differing approaches to the study of leadership, at the present time, eg, organisation theory, cultural analysis, critical theory; the dilemma from an increasing concern with democratic, participative and facilitative styles, the political and economic environment is progressively more market-oriented, with a stress on tighter funding, privatisation, accountability and its challenging of long accepted notions of public sector security.

Credit Points: 12 **Contact Hours:** 3 per week

■ ED5018 APPLIED RESEARCH METHODS IN EDUCATION

Development of an awareness and understanding of the research process from an historical, socio-cultural, ethical and theoretical perspective; the validity, applicability and suitability of various research strategies for specific educational endeavours; comprehension and evaluation of research findings drawn from a variety of perspectives, paradigms and methodologies; development of skills to conduct research appropriate to answer questions critical to particular fields of interest.

Credit Points: 12 **Contact Hours:** 3 per week

■ ED5019 READING 1

A general survey of the chosen area of study to identify major educational trends; identifying the broad parameters within which the individual specialised study will develop; identifying and analysing trends in the literature related to a selected area of study; isolating specific aspects worthy of more detailed investigation.

Prerequisite: At least one Stage 1 subject

Credit Points: 24 **Contact Hours:** 6 per week

■ ED5020 READING SUBJECT 2

Focused reading in specific aspects, identified in ED5019 as being worthy of more detailed investigation; summary of current thinking within the selected area of study, in order to identify an area for potential investigation in the remaining subjects of the specialisation.

Prerequisite: ED5019

Credit Points: 24 **Contact Hours:** 6 per week

■ ED5021 STAGE 1: PREPARATION

Preparation of a brief preliminary outline for the research in consultation with the supervisory team; acquisition of knowledge of a range of appropriate research methods; commencement of a comprehensive literature search.

Credit Points: 48

■ ED5022 STAGE 2: PROPOSAL

Adoption of an appropriate research design for the proposed research; preparation of a comprehensive proposal for the research including a draft review of the literature; presentation and justification of the proposal to a seminar or seminars of other students in the strand and appropriate academic staff; trial research procedures.

Credit Points: 48

■ ED5023 STAGE 3: IMPLEMENTATION

Implementation of the research for the thesis; completion of the literature review; provision of a progress report.

Credit Points: 48

■ ED5024 STAGE 4: SUBMISSION

Completion and presentation of a thesis or alternative to supervisory team for approval; production of thesis in a suitable form for examination.

Credit Points: 48

■ EE2053 INTRODUCTION TO CURRICULUM

The concept of curriculum as a framework for teacher decision making; past and present approaches to early childhood curriculum development; the role of teachers in curriculum decision making; the role and relation of various persons involved in the curriculum process.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2054 CURRICULUM FOR EARLY LEARNING: 0-5 YEARS

The significance of early learning in the home and group care; the role of the early childhood teacher in relating curriculum to the learner, cultural values and society; applying knowledge of development and learning to curriculum for the young child on a formal and informal basis.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2055 THE CHILD AS INVESTIGATOR

Integrated with EE2056 and EE2057; study of curriculum decision making and teaching strategies which are responsive to patterns in development as children investigate their world, acquiring knowledge, skills and dispositions foundational to mathematics, the physical sciences and the social sciences.

Prerequisite: EE2054

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2056 CHILDREN COMMUNICATING

Integrated with EE2055 and EE2057; study of curriculum decision making and teaching strategies which are responsive to patterns in development as

children acquire the dispositions and competencies necessary for understanding their social world, expressing self and communicating effectively.

Prerequisite: EE2054

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2057 THE CHILD AS CREATOR

Integrated with EE2055 and EE2056; study of curriculum decision making and teaching strategies which are responsive to patterns in development as children respond creatively through visual, aural and bodily-kinesthetic means.

Prerequisite: EE2054

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2058 ENVIRONMENTS DEVELOPING COMMUNICATION

Integrated with EE2059 and EE2060; designing and working in learning environments which enable the development of self-esteem, language use and culture understandings, foundational and effective communication in settings familiar to the child under eight years of age.

Prerequisites: EE2055 and EE2056

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2059 ENVIRONMENTS PROMOTING THE SCIENCES

Integrated with EE2058 and EE2060; designing and working in learning environments which enable optimum development of dispositions and competencies foundational to mathematics, the physical sciences and the social sciences.

Prerequisites: EE2055 and EE2056

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2060 ENVIRONMENTS FOSTERING ARTISTRY

Integrated with EE2058 and EE2059; designing and working in learning environments which enable optimum development of the young child's artistic, creative and expressive abilities.

Prerequisites: EE2055 and EE2056

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2064 INTRODUCTION TO CURRICULUM 1

Basic elements in curriculum design; environmental factors affecting curriculum; processes of curriculum development.

Credit Points: 5 **Contact Hours:** 2 per week

■ EE2065 INTRODUCTION TO CURRICULUM 2

Contemporary issues affecting curriculum; analysis of curriculum models; the teacher and decision making in the curriculum process.

Prerequisite: EE2064

Credit Points: 5 **Contact Hours:** 2 per week

■ EE2067 EXCEPTIONALITY & YOUNG CHILDREN

Forms and ranges of exceptionality, intellectual and orthopaedic handicaps, impairment of sight and hearing, learning disabilities and giftedness; initial screening and identification procedures; early intervention programs; integration in regular classrooms; support and referral services.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2068 LITERACY & NUMERACY: THE EARLY YEARS

Identification of contemporary issues in literacy and numeracy; analysis of approaches to literacy and numeracy in terms of young children; diagnostic and

assessment procedures; planning, implementation and evaluation of learning experiences for children including those with special needs; examination of learning environments and materials appropriate to literacy and numeracy teaching.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2069 CHILD CARE

Social and program issues relating to child care; provision of child care in Australia and overseas; examination of research on group care for young children.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2070 RESEARCH IN EARLY CHILDHOOD EDUCATION

Introduction to research techniques; identification of emerging issues in early education through a review of current literature; perceptions of community and professional organisations and seminar/conference topics; evaluation of provisions for postgraduate professional development.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2071 PROGRAMS FOR CHILDREN UNDER THREE

Examination of social and historical factors relating to the provision of care and education for very young children; analysis of the characteristics and effects, as demonstrated in research studies, of a variety of parent/infant, early intervention and day care programs for under threes, both in Australia and overseas.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2074 SPECIAL PROGRAMS FOR YOUNG CHILDREN

Meeting particular needs of young children through special programs; procedures for setting up, obtaining funding, assessing needs, formulating objectives, devising programs, and evaluating outcomes of programs including those for isolated children, socially disadvantaged children and culturally different children.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2075 CHILDREN'S LITERATURE (0-8 YEARS)

The significance of children's literature as it increasingly influences the content of literacy and language programs; origins and antecedents of stories as they reflect society; critical evaluation of books being produced nationally and internationally and the acquisition of skills of selection; planning quality long-term literature programs.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2077 DRAMA WITH SPECIAL CHILDREN

Drama as a method of facilitating learning through available resource materials; observing, planning for and teaching children with special needs; matching activities to positive abilities; evaluation of outcomes.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2078 SPECIAL PHYSICAL EDUCATION

Disability: cause, etiology and motor or intellectual limitations. Evaluating procedures: use of existing test batteries; designing test batteries for specific purposes. Teaching strategies and skills: designing and implementing programs; using appropriate techniques for specific disability groups.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2080 INTRODUCTION TO CURRICULUM

Settings and frameworks for curriculum decision making; establishing curriculum policies and effective evaluation strategies; establishing environments for learning; issues in curriculum decision making; implications for various home-based and centre-based care settings.

Credit Points: 10 **Contact Hours:** 4 per week

■ EE2081 TEACHING & CARING STRATEGIES 1

Exploration of planning, implementing and evaluating developmentally appropriate programs for children from birth to twelve years of age; health, safety and nutrition aspects of such programs for children; strategies necessary for providing quality education and care for individual children's development.

Credit Points: 5 **Contact Hours:** 3 per week

■ EE2082 INTERPERSONAL RELATIONSHIPS

Fundamentals of interpersonal communication, the self in interpersonal communication; verbal and non-verbal behaviour; listening and feedback in interpersonal communication; interpersonal relationships with particular reference to children, families and occupational settings.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2083 PHYSICAL, PERCEPTUAL & MOTOR DEVELOPMENT & LEARNING

Physical and motor development, growth patterns and changes in body systems, effects of maturation, phylogenetic and ontogenetic aspects and individual differences; development and capacities in sensory processing in infancy and childhood; introduction to and application of observational techniques to the study of infants and young children's physical, perceptual and motor development.

Prerequisite: EE2300

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2084 CURRICULUM FOR EXPLORATION & PROBLEM SOLVING 1

Theory and practice in designing home-based and centre-based care environments; child-teacher interactions within the environment with emphasis on under-three-year-old children's exploratory and problem-solving behaviours; investigation of the planning-evaluation framework; curriculum decision making and identification of policies and evaluation strategies for various early childhood settings.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2085 TEACHING & CARING STRATEGIES 2

Introduction to the practical aspects of designing, implementing and evaluating developmentally appropriate programs for children under three years of age in a range of child care and education settings; physical care and education; safety and nutrition.

Credit Points: 5 **Contact Hours:** 3 per week

■ EE2086 GROUP PROCESSES

Group processes; roles and functions in groups; leadership styles and characteristics; group task achievement, communication skills in groups.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2087 LANGUAGE & COGNITIVE DEVELOPMENT & LEARNING

Theories of language and cognitive development; relationship between language and thought; early syn-

tax and the development of speech and morphology; functions of children's language and communication; facilitation of children's language and literacy skills; teachers' and parents' roles.

Prerequisite: EE2300

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2088 CURRICULUM FOR COMMUNICATION 1

Curriculum for self-expression and communication; exploration of planning implications for a variety of childhood care and education contexts; the contribution of varied interaction opportunities to the development of children's communication skills; learning environments which accept and support children under three years of age.

Credit Points: 10 **Contact Hours:** 4 per week

■ EE2089 CURRICULUM FOR EXPLORATION & PROBLEM SOLVING 2

The child as an active learner utilising cognitive and motor skills in exploration and problem solving; the child-centred curriculum and its role in the development of children's social competencies and cognitive skills; design of developmentally appropriate curriculum for investigating, socialising and problem solving, focusing on children under three years old.

Prerequisite: EE2084

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2090 TEACHING & CARING STRATEGIES 3

Effective strategies for teaching/caring for children in small group and larger group contexts; designing, implementing and evaluating programs with particular emphasis on the birth to three year age range; promoting communication creativity and self-expression in child care and education programs.

Credit Points: 5 **Contact Hours:** 3 per week

■ EE2091 CONTEMPORARY AUSTRALIA

Utilisation of historical and social perspectives to examine the development of contemporary Australian society, with particular emphasis on attitudes and values, class, race, ethnicity and gender.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2092 SOCIAL & EMOTIONAL DEVELOPMENT & LEARNING

Theories of social-emotional development and learning; individuality and self-knowledge; socialisation processes in the family, the centre and the wider cultural contexts; development of pro-social behaviours and social competencies.

Prerequisite: EE2300

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2093 CURRICULUM FOR COMMUNICATION 2

Theory and practice in designing developmentally appropriate curriculum for communication for three- to six-year-olds; exploration of the socio-cultural contexts of communication; children's literature; the child and the media; the role of communication processes in children's learning emphasising the links between oral and written language learning in the home and early childhood group care settings.

Prerequisite: EE2088

Credit Points: 10 **Contact Hours:** 4 per week

■ EE2094 CURRICULUM FOR SELF-EXPRESSION & CREATIVITY

Children's development of self-expression and creativity and the factors which may contribute to this development; curriculum approaches which foster a

positive self-concept, creativity and artistic growth in individual children, focusing on three- to six-year-old children.

Credit Points: 10 **Contact Hours:** 4 per week

■ EE2095 TEACHING & CARING STRATEGIES 4

The teacher's caring and educating roles in home-based and centre-based early childhood care settings; designing, implementing and evaluating programs for three- to six-year-olds.

Credit Points: 5 **Contact Hours:** 3 per week

■ EE2097 LEARNING & TEACHING

Models of memory, knowledge and information processing; perspectives on and implications of theoretical explanations of thought; current theories and measurement of intelligence; the teacher's role and environmental management techniques in facilitating learning in children.

Prerequisite: EE2300 (not applicable to students in the Upgrading Program)

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2098 ADMINISTRATION & PROGRAM PLANNING FOR E.C.

The range of, and relationships between, child care and education services; management theory and practice; leadership styles and approaches; administration of child care services; examination of historic and current influences on Australian care and education services; exploration of the international perspective; decision making in relation to interpersonal relationships, building and outdoor design, budgeting, government funding and regulations, planning comprehensive programs reflecting specific community needs; parent and community education.

Credit Points: 20

■ EE2099 FAMILY & COMMUNITY PROCESS, POLICIES & SOCIAL NETWORKING

Trends and patterns in the contemporary family, with particular reference to women's changing role, family diversity; family stress; the ideological context of family and welfare policy in Australia with particular reference to education, health and welfare policies; application and implications of policy decisions for child care and education services, community services and resources; social systems and networks in service delivery; roles and expertise of professionals including child care and education personnel within and across systems.

Credit Points: 20

■ EE2100 PROGRAM PLANNING

Decision making in relation to such factors as interpersonal relationships, building and outdoor design, budgeting, government funding and regulations; planning comprehensive programs in response to developmental and special multicultural, social and economic needs of children, families and community; parent and community education.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2101 SOCIAL NETWORKING

Characteristics and functions of social systems and social networks; analysis of social support systems and implications for children and families; social systems and networks in service delivery; roles and expertise of professionals including child care and education personnel within and across systems.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2102 CHILD DEVELOPMENT & LEARNING

Theoretical perspectives on development and learning of children 0-12 years; investigation of aspects of development, developmental sequences and patterns; factors influencing development and learning; observation measurement and research methods in development and learning.

Credit Points: 20

■ EE2103 CURRICULUM, THEORY & DESIGN FOR CHILD CARE

Frameworks for curriculum decision making; establishing curriculum policies and evaluation strategies; characteristics of learning environments which foster communicative competence, creativity and problem solving; levels of decision making, federal and state governments, employing authorities, particular child care and education services.

Credit Points: 10

■ EE2104 TEACHING & CARING STRATEGIES

The teaching/caring role in the facilitation of learning; supportive and stimulating environments for learning; strategies for planning, providing and evaluating learning experiences for children 0-12 years.

Credit Points: 10

■ EE2105 CONTEMPORARY AUSTRALIAN FAMILY & COMMUNITY

Review and analysis of current literature; formulation, implementation and analysis of a community project to examine a selected issue.

Credit Points: 20

■ EE2106 STUDY SKILLS & COMMUNICATION 1

Enhancement of students' reading, writing, note-taking and organisational skills.

Credit Points: 30

■ EE2107 STUDY SKILLS & COMMUNICATION 2

Enhancement of students' reading, writing, note-taking and organisational skills.

Credit Points: 15

■ EE2108 STUDY SKILLS & COMMUNICATION 3

Enhancement of students' reading, writing, note-taking and organisational skills.

Credit Points: 10

■ EE2109 ADMINISTRATION OF EARLY CHILDHOOD CARE SERVICES

The range of, and relationships between, child care and education services; management theory and practice; leadership styles and approaches; administration of child care services; examination of historic and current influences on Australian care and education services; exploration of the international perspective.

Credit Points: 10 **Contact Hours:** 4 per week

■ EE2110 FAMILY & COMMUNITY PROCESS & POLICIES

Trends and patterns in the contemporary family, with particular reference to women's changing role, family diversity; family stress; the ideological context of family and welfare policy in Australia with particular reference to education, health and welfare policies; application and implications of policy decisions for child care and education services, community services and resources.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2111 CULTURAL INCLUSIVITY IN AN E.C. CONTEXT

The development of cultural exclusion; cultural and societal influences which determine the diversity of patterns of cultural development and learning; the role of education as it applies to cultural transmission and the influences of curricula and resources.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2300 DEVELOPMENT & LEARNING: LIFE SPAN

Continuity and change in development and learning from conception to death; multidisciplinary overview of life cycle; theoretical perspectives; major features of physical, cognitive and socio-emotional development and learning over the life span.

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2301 PHYSICAL, PERCEPTUAL & MOTOR DEVELOPMENT & LEARNING

Physical and motor development, growth patterns and changes in body systems, effects of maturation, phylogenetic and ontogenetic aspects and individual differences; perceptual capacities of infants and young children; implications for programming and instruction; the techniques of observation, recording and analysis of children's physical, perceptual and motor development.

Prerequisite: EE2300

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2302 LANGUAGE & COGNITIVE DEVELOPMENT & LEARNING

Theories of language and cognitive development; study of relationship between language and thought; emergence and socialisation of the symbolic function; early syntax and the development of speech and morphology; functions of children's language and communication; facilitation of children's self-expression, communication and creative skills; cognitive processing in academic tasks.

Prerequisite: EE2301

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2303 SOCIAL, EMOTIONAL & CREATIVE DEVELOPMENT & LEARNING

Theoretical perspectives on social, emotional and creative development; temperament and personality dimensions, continuity and change; socialisation within the family, peer and classroom contexts; components of social competence; affective development; creativity and self-expression.

Prerequisite: EE2302

Credit Points: 10 **Contact Hours:** 3 per week

■ EE2307 DEVELOPMENT & LEARNING: LIFE SPAN 1

Development and learning as a life-long process; a multi-disciplinary overview with particular emphasis on the effect of different cultural and social environments on the cognitive, social and physical development of young children; techniques of observation, recording and analysis of child behaviour.

Credit Points: 5 **Contact Hours:** 2 per week

■ EE2308 DEVELOPMENT & LEARNING: LIFE SPAN 2

Significance of theoretical frameworks in understanding human development and learning throughout the life span; assessment of own stage in the developmental process; continuity and change in human development and learning from conception to

death; consideration of cultural and social influences upon development.

Prerequisite: EE2307

Credit Points: 5 **Contact Hours:** 2 per week

■ **EE2600 TEACHING STRATEGIES 1**

Understanding and practising effective interpersonal communication skills in practical situations; the application of knowledge and skills acquired to the teaching situation in early childhood settings; acquisition of skills of observing and recording ongoing behaviour in practical situations.

Credit Points: 5 **Contact Hours:** 3 per week

■ **EE2601 TEACHING STRATEGIES 2**

Relating to children 0-5 years, parents and caregivers in family and community settings; using media effectively in the pre-school setting; using play as a teaching strategy; acquiring the art of storytelling; developing basic competencies in planning learning experiences and organising the learning environment in kindergarten/pre-school settings.

Prerequisite: EE2600

Credit Points: 5 **Contact Hours:** 3 per week

■ **EE2604 THE EARLY CHILDHOOD TEACHER 1**

The early childhood teacher; analysis of the role of the early childhood teacher with particular emphasis on the lower primary setting; development of an integrated curriculum plan relevant for children in contemporary society; professional behaviour and ethics; formulation of a personal philosophy of teaching for early childhood education.

Credit Points: 10 **Contact Hours:** 3 per week

■ **EE2605 THE EARLY CHILDHOOD TEACHER 2**

The early childhood teacher; further analysis of the role of the early childhood teacher with particular emphasis on the pre-school setting; development of an integrated curriculum for pre-school children; administrative, organisational and coordinating responsibilities of the early childhood teacher; working with parents; current issues in child welfare.

Credit Points: 10 **Contact Hours:** 3 per week

■ **EE2606 MICROCOMPUTERS IN EARLY EDUCATION**

Computer consciousness; programming and languages, particularly LOGO; relevance and significance of computers in education; techniques for using computers with young children.

Credit Points: 10 **Contact Hours:** 3 per week

■ **EE2607 MEDIA FOR EARLY CHILDHOOD TEACHERS**

Examination of considerations relevant to media selection, use and evaluation; integration of learning through media; planning and production in areas of graphics, audio, projected and photographic media, and television; development of media for early childhood teaching situations.

Credit Points: 10 **Contact Hours:** 3 per week

■ **EE2608 WORKING WITH PARENTS**

Practical demonstration of understanding parental role in early childhood education; devising and implementing a variety of innovative programs.

Credit Points: 10 **Contact Hours:** 3 per week

■ **EE2609 TEACHING ENGLISH AS A SECOND LANGUAGE**

The nature and functions of language; the grammar of English from a teaching/learning perspective, particularly in relation to English learners; fundamental

principles and procedures underlying a communicative approach to teaching English as a second language; teaching specific language skills; evaluation and assessment.

Credit Points: 10 **Contact Hours:** 3 per week

■ **EE3033 EARLY EDUCATION: CURRICULUM DEVELOPMENT**

Perspectives on the undifferentiated curriculum; early educational curriculum design and implementation; analysis of representative models of early education; curriculum evaluation and innovation in early education.

Prerequisite: CU3040 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ **EE3034 EARLY EDUCATION: READING**

Reading as a natural language-learning and communicative process; the complementary roles of parents and teachers in literacy development 0-8 years; implications for the planning and implementation of pre-school and infant school literacy programs; implications for selecting instructional materials; organisation and management of a set of cohesive and developmental literacy experiences.

Prerequisite: CU3040 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ **EE3035 MATHEMATICS: EARLY CHILDHOOD**

Theoretical background and research; logical sequence of mathematics and children's cognitive development; mathematics content and learning experiences for early childhood; integration and application of mathematics in early childhood settings.

Prerequisite: CU3040 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ **EE3702 WORKING WITH PARENTS & COMMUNITY**

Parental roles in childhood; review of research on child rearing; the use of interpersonal skills in relating to parents; planning for parent involvement; parent involvement approaches; resources for parents; meeting the needs of parents and programs; future trends.

Prerequisite: Relevant studies at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ **EE3703 EARLY EDUCATION DEVELOPMENT & LEARNING**

Ecological orientation of child development; forces shaping the development of children 0-8 years; ecological analysis of the psychosocial and cultural perspectives of infant and early childhood learning; ecological analysis of the major early childhood settings; social policy.

Prerequisite: Studies in human development at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ **EE4029 SOCIAL, EMOTIONAL & PHYSICAL DEVELOPMENT (0-9 Years)**

Introduction to the major theories, processes and features of development and learning of children 0-9 years in the physical, perceptual, motor and social-emotional domains; application of this knowledge to planning for children's needs, interests and abilities.

Credit Points: 8 **Contact Hours:** 3 per week

■ EE4030 COGNITION & LANGUAGE (0-9 Years)

Review and analysis of current knowledge of the processes and features of cognitive and language development and learning of children 0-9 years; analysis of observational data on children's behaviours in terms of current theoretical understanding and using such analyses for planning to meet children's needs, interests and abilities.

Credit Points: 8 **Contact Hours:** 3 per week

■ EE4031 CREATIVITY & LANGUAGE 1

Developmental processes in the expressive and language arts; principles of learning; the development of personal identity in children; creative and expressive processes; teaching-learning approaches and strategies.

Credit Points: 8 **Contact Hours:** 3 per week

■ EE4032 CREATIVITY & LANGUAGE 2

Discipline-based processes; the interrelated and unique contribution of each of the arts; the teacher's role as a curriculum decision maker.

Credit Points: 8 **Contact Hours:** 3 per week

■ EE4033 THINKING & PROBLEM SOLVING 1

The processes of interest in active learning, inquiry and problem solving; environments and strategies which promote the development of active learning and inquiry by young children; monitoring individual progress.

Credit Points: 8 **Contact Hours:** 3 per week

■ EE4034 THINKING & PROBLEM SOLVING 2

The child as explorer, problem solver and meaning maker; organising for active learning, inquiry and problem solving; linking home and school environments.

Credit Points: 8 **Contact Hours:** 3 per week

■ EE4035 PROGRAM PLANNING STRATEGIES & MICRO-SKILLS 1

Overview of the role of the early childhood teacher; the human communication process in relation to teaching in different early childhood settings; decision making; guidelines for short-term planning to meet individual and group needs; teaching and learning styles and strategies; theories of motivation, management and guidance relating to the physical, intellectual and socio-emotional aspects of the development of young children; effective use of time, space and resources.

Credit Points: 8 **Contact Hours:** 3 per week

■ EE4036 PROGRAM PLANNING STRATEGIES & MICRO-SKILLS 2

Continuation of EE4035.

Prerequisite: EE4035

Credit Points: 8 **Contact Hours:** 3 per week

■ EE4040 DEVELOPMENT & LEARNING (3-8 YEARS)

Examination of techniques for observing and analysing child behaviour; overview of major theories of development and learning; cognitive, social/emotional, language and physical development and learning in children 2-9 years.

Credit Points: 9 **Contact Hours:** 2.5 per week

■ EE4041 RESEARCH IN DEVELOPMENT & LEARNING

Examination of the research literature in development and learning; research techniques in early childhood;

application of research techniques in early childhood; application of research techniques to research proposals; experimental research in one aspect of development and learning of children aged 3-8 years; contributions to early childhood research from other fields.

Prerequisite: EE4040

Credit Points: 9 **Contact Hours:** 2.5 per week

■ EE4042 CURRICULUM & TEACHING STRATEGIES 1

Examination of the development of problem solving, explanation, investigation, self-expression, originality, divergent thinking, and risk-taking in young children in relation to communication, movement and the expressive arts; analysis of teaching strategies.

Credit Points: 9 **Contact Hours:** 2.5 per week

■ EE4043 CURRICULUM & TEACHING STRATEGIES 2

Examination of teaching strategies, incorporating problem solving through exploration and investigation, for studying mathematics, science, social studies and health curriculum. The emphasis will be on approaches and suitable materials for these curriculum areas within various early childhood settings.

Credit Points: 9 **Contact Hours:** 2.5 per week

■ EE4044 CURRICULUM & TEACHING STRATEGIES 3

Critical evaluation of current approaches to the teaching of literacy and numeracy in the early years; diagnosis and assessment in early literacy and numeracy; the expressive arts and the sciences as modes of learning and teaching in the early years; the use of microcomputers and educational software with young children; planning and teaching for individual and group needs.

Credit Points: 9 **Contact Hours:** 2.5 per week

■ EE4045 PROGRAM PLANNING

Planning and evaluating early childhood programs for children 3 to 8 years; organisation and administration of programs for young children; examination of approaches to teaching; early intervention programs; inter-disciplinary teamwork and support services; strategies for working with parents and community agencies; professional behaviour and ethics.

Credit Points: 9 **Contact Hours:** 2.5 per week

■ EE4309 SOCIO-CULTURAL CONTEXTS OF EDUCATION

The social context of education; social interrelationships which define this context; the impact of diversity in family structures; child rearing patterns; alterations to family roles; educational practices which respond to socio-cultural contexts.

Credit Points: 8 **Contact Hours:** 3 per week

■ EE4310 TEACHING IN CONTEMPORARY SOCIETY

The implications of social change for early childhood programs; historical, philosophical and sociological perspectives on change in contemporary society; technological developments; demographic changes in urban and rural settings; ethical and legal issues affecting teachers.

Credit Points: 8 **Contact Hours:** 3 per week

■ EE4311 THE CONTEXT OF EARLY CHILDHOOD EDUCATION

Examination of the bases and scope of education in early childhood, the role of psychological theories,

curriculum models, policies and programs; case studies of early childhood programs.

Credit Points: 9 **Contact Hours:** 2.5 per week

■ EE4312 TRANSACTIONS IN EARLY CHILDHOOD EDUCATION

Examination of the implication of social, cultural and geographical factors for early childhood education; consideration of the effects of technology and media, and ethical and legal obligations; analysis of procedures and techniques for case studies; formulating a personal philosophical statement.

Prerequisite: EE4311

Credit Points: 9 **Contact Hours:** 2.5 per week

■ EE4902 PRACTICE TEACHING 1

Observation; planning, implementation and evaluation of curriculum for children in the early childhood age range; communication with children, parents and colleagues and the demonstration of organisational and administrative skills in an early childhood setting or equivalent.

Credit Points: 12

■ EE4903 PRACTICE TEACHING 2

Observation; design, implementation and evaluation of programs for children in the early childhood age range; communication with children, parents and colleagues; increased responsibility for control and management in the early childhood setting; catering for children in the early childhood age range.

Prerequisite: EE4902

Credit Points: 12

■ EN2000 STORYTELLING IN VARIOUS MEDIA

The adult short story; writing techniques and criteria for evaluation; novels, short-stories and films for children who can read for themselves, viewed from a literary and entertainment point of view.

Credit Points: 5 **Contact Hours:** 2 per week

■ EN2044 CONTRASTS IN AUSTRALIAN LITERATURE

Consideration of a variety of literature dealing with significant aspects of the Australian ethos/character: anti-authoritarianism, aggression and violence, female oppression, aggressive nationalism, racism; ways in which writers have viewed and used aspects of the Australian landscape; the literature of protest: the Vietnam war, feminism, civil rights, Aboriginal land rights; the new Australian drama.

Credit Points: 10 **Contact Hours:** 4 per week

■ EN2050 FANTASY & SCIENCE FICTION

Nature, scope and function of science fiction. Fantasy: struggle between good and evil, horror and frisson, traditional and 'art' fairytales, children's and adult fantasy; utopian literature and alternative worlds; allegorical fantasy; traditional wisdom and fantasy. Science fiction: history of the genre, beginnings of modern science fiction, nature of today's science fiction and criteria for evaluating it, differentiation and expansion of the sciences now appearing in science fiction, effects of scientific and technological discovery.

Credit Points: 5 **Contact Hours:** 2 per week

■ EN2058 THE MASS MEDIA IN AUSTRALIA

The mass media in Australia; advertising and the media; critical examination of television programs; the mass media in the classroom.

Credit Points: 5 **Contact Hours:** 2 per week

■ EN2071 COMMUNICATION: FOCUS ON LITERACY

Oral language as the beginning of a set to literacy; the emergent reader/writer; beyond initial literacy; environmental literacy.

Prerequisites: LA2042 and SS2053

Credit Points: 8 **Contact Hours:** 3 per week

■ EN2072 COMMUNICATION: FOCUS ON INTEGRATION

Principles underlying communication program development; resource identification, selection and development; strategies for fostering language/communication development; communication program development; critical issues in communication.

Credit Points: 8 **Contact Hours:** 3 per week

■ EN2801 INTERPERSONAL COMMUNICATION

The function of self-concept in the communication process; the process of personal change; consideration of the Johari model as a theoretical framework for developing skills of disclosure and feedback; the development and maintenance of trust; communication skills (listening, attending, encouraging, paraphrasing, clarifying, perception checking, reflecting, summarising).

Credit Points: 8 **Contact Hours:** 3 per week

■ EN2802 COMMUNICATION IN GROUPS

Experiential work in group skills such as communication, decision making, problem solving, use of power, resolving conflicts, formulating group goals, developing norms, adapting leadership to process; consideration of group behaviour in the light of group development models (Bennis, Beon, Bradford, Cohen and Smith, Miles, Rogers and Schutz); consideration of own behaviour in group settings with respect to communication style.

Prerequisite: EN2801

Credit Points: 8 **Contact Hours:** 3 per week

■ EN2803 LANGUAGE & COMMUNICATION

The nature and functions of language and communication; characteristics of the English language; language variation and English; the role of language in social control and persuasion; communication in a multicultural society; discourse analysis.

Credit Points: 5 **Contact Hours:** 2 per week

■ EN3026 COMMUNICATION

The nature of communication; non-verbal communication; interpersonal communication; written communication in organisations; aspects of information technology.

Credit Points: 9 **Contact Hours:** 3 per week

■ EN3031 ENGLISH LANGUAGE CURRICULUM ISSUES

Concepts of the English/language arts curriculum; concepts of oracy and literacy; recent research findings; emerging issues in English/language arts teaching; evaluation of language growth in students; issues and innovations in primary school language areas; issues and innovations in the secondary English curriculum.

Prerequisite: CU3040 or equivalent plus relevant teaching experience and studies at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ EN3035 APPROACHES TO CULTURAL STUDIES

Critical evaluation of traditional approaches to literary texts; understanding of major terms and concepts of semiotics, structuralism, post-structuralism; application of concepts in analysis of texts; knowledge of significant writings and cultural theorists.

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3036 STUDIES IN LANGUAGE

The language basis in current approaches to the teaching of English; nature and function of language; dynamics involved in interactive situations; appropriateness of language forms used in various social contexts; educational implications of linguistic diversity within the community; recognition of the developmental features of adolescent language.

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3037 THE MEDIA & SOCIETY

The importance of history, organisational control, forms, functions, and audiences of the mass media; role of the mass media in recording and shaping 'reality'; identification of the effects mass media can have on society.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 4 per week

■ EN3038 AUSTRALIAN LITERARY STUDIES

Critical appreciation of various texts from Australia's literary tradition; impact of social values, political and artistic movements upon literature production and genres; dichotomy of mainstream and marginalised writing in various groups and periods of Australia's cultural traditions.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3039 LITERATURE IN TEACHING

How new areas of knowledge are affecting the selection of literary texts for teaching at various developmental stages and the processes of readers' responses to those texts; how to relate such information to the context of teaching literature in schools; the influence of such factors as systems of evaluation, the operation of school libraries, the policies of book publishers in relation to resources for teaching literature, State syllabuses and school programs on the design of English curriculum.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3040 MODERN BRITISH LITERATURE

The novel, poetry and drama from the time of Hardy to the present day; the development of modernism; the influence of T.S. Eliot; changes in the nature of drama with the birth of realism and the conflict created by the anti-novel in any traditional view of a body of literature.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3041 NINETEENTH CENTURY LITERATURE

The importance of context to critical appreciation of the literature of any age; the varying kinds of relationship that exist between writers and their society in a time of profound social, economic and political change.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3042 AMERICAN LITERATURE

The literature of America in the twentieth century within its cultural context; significant developments in American literature since the 1920s, with reference to major preoccupations and issues; changes and influences in literary style; the impact of socio-political changes on American writing.

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3043 YOUNG ADULT FICTION

The scope and nature of young adult literature; strategies for evaluation and selection; recent research into adolescents' reading needs, interests and responses; methods for promoting and using young adult books in the curriculum.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3044 SHAKESPEARE IN THE ELIZABETHAN WORLD

The literary and intellectual culture of Elizabethan England as a backdrop for the special study of a selection of the dramatic and poetic works of William Shakespeare and, more briefly, the work of some of his contemporaries.

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3045 WOMEN IN LITERATURE & THE MEDIA

Literary texts and films written by women; relevant aspects of their socio-cultural experience; marginalisation from 'mainstream' culture.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3046 AUSTRALIAN CULTURE & TELEVISION

How the Australian culture is being constructed on television particularly in the mini-series; key myths and legends; how these myths and legends are handled; the Anzac myth; 'The Australian way of life'; Australian nationalism and the USA, British and Japanese connections.

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3047 CHILDREN'S LITERATURE

Children's literature in the literacy development of children and young adults and the importance of children's literature in shaping the child's view of the world.

Prerequisite: EN3036

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3048 ABORIGINAL WRITING

The contribution of Aboriginal writing to the field of Australian literature; the major issues and themes that concern Aboriginal authors; the peculiar problems confronting Aboriginal writers in relation to both their socio-political context and the established conventions of literary criticism.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3049 CLASSICAL & MEDIAEVAL

Great works from ancient Greece with reference to Greek art, architecture, religion and philosophy; the development of Latin literature from Ennius to the Silver Age in its historical context; the authorised version of the Bible; Anglo-Saxon literature, old French literature, Dante, Petrarch, Boccaccio, Chaucer, Malory and the Arthurian tradition.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3050 TEACHING ENGLISH AS A SECOND LANGUAGE

The history of migration to Australia, considering the needs of the bilingual learners in our schools and examining curriculum documents from a multicultural perspective.

Prerequisite: EN3036

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3051 STORYTELLING

Story structure; selection of suitable stories to tell which match needs and interests of the audience; integration of storytelling across the curriculum.

Prerequisite: EN3036

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3052 CONTEMPORARY APPROACHES TO LITERACY

The issue of literacy within the wider community cultural context and in the specific immediate context of the tertiary institution; conceptions of what represents literacy in the culture; the cognitive and linguistic aspects of what constitutes literacy; the surface features of language in use; the strategies by which meaning is made and communicated.

Prerequisite: EN3036

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3053 MODERNISM & POST-MODERNISM

The concepts of modernism and post-modernism and how they are related to social, technological and philosophical developments in this century; the movement away from the commitment of modernism to post-modernism abandonment of the transcendental values.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3054 WRITING WORKSHOP

This subject is based on contemporary understanding of writing. The student, as writer, uses all the language modes in social contexts (either genuine or simulated) to lead to writing in a range of situations. Engagement in these writing situations is designed to bring about personal understanding of the following: the nature of the writing process; the influence of audience and purpose on the final written product; the range of genres (or forms) that fall within the activity of writing. The act of writing is also examined for the contribution it makes to learning and critical thinking, both in the content areas across the curriculum and in the development of creativity and understanding about oneself as an individual.

Prerequisite: EN3036

Credit Points: 10 **Contact Hours:** 3 per week

■ EN3701 THE TEACHER & THE WRITING PROCESS

The writing workshop; the writing process and language growth; writing in the school; the sociology of writing; helping the writer; evaluation and assessment of writing.

Prerequisite: English/language arts curriculum studies at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ EN4009 COMMUNICATION: FOCUS ON LITERACY

A set towards literacy: oral language, appropriate environments for the development of a set, a concept of print. The emergent reader/writer: the reading and writing processes, children's behaviour at the emergent literacy stage, monitoring reading and writing

development, resources and strategies for developing reading and writing, program development for the lower primary school; beyond initial literacy.

Credit Points: 8 **Contact Hours:** 2 per week

■ EN4012 COMMUNICATION: FOCUS ON LANGUAGE

Principles underlying language program development; resource identification, selection and development; strategies for fostering language development; language arts; program development.

Credit Points: 4 **Contact Hours:** 2 per week

■ ER3002 DYNAMIC EARTH

The nature of our planet and its dynamic systems; materials of the earth; the ocean's structure; dynamic nature of the earth; the earth through time; field studies.

Co-requisite: ER3003

Credit Points: 10 **Contact Hours:** 4 per week

■ ER3003 EXPLORATION OF THE UNIVERSE

The nature of stars; planetary systems and galaxies; the theories of the origin and nature of the solar systems; the role and function of satellites and spacecraft; planetary atmospheres; the greenhouse effect and its causes; practical activities and field observation.

Co-requisite: ER3002

Credit Points: 10 **Contact Hours:** 4 per week

■ ER3004 AUSTRALIAN GEOLOGY

Igneous and metamorphic associations, fold mountain belts, sedimentary basins, and major ore deposits within the context of the plate tectonics model and especially with regard to the Australian setting; comparisons with older geosynclinal theories; study of rocks and minerals in thin section; field studies, with representative locations chosen for the examination and illustration of at least some of the following (i) a significant sedimentary basin, (ii) a major fold belt, (iii) a major ore deposit, (iv) a calc-alkaline volcanic-plutonic association.

Prerequisite: ER3002

Credit Points: 10 **Contact Hours:** 4 per week

■ ER3005 GEOLOGICAL ENVIRONMENTS

The geological evolution of Queensland; ancient organisms and their environments as based on fossil evidence; modern Queensland environments and environmental issues; climate and geology; soils and land erosion; groundwater use and management; geological hazards; engineering applications; mining and the environment; the influence of human developments and movement on Queensland's landscape, shoreline, and continental shelf; the role of geology in recreational pursuits on National Parks, the Great Barrier Reef, geological monuments, local geology.

Prerequisite: ER3002

Credit Points: 10 **Contact Hours:** 4 per week

■ ER3701 EARTH SCIENCE

Mineralogy; petrology; economic geology; the solar system and space exploration; stellar evolution and cosmology; diastrophism; geomorphology. Incompatible with tertiary studies in earth science, or earth science as major in Diploma of Teaching.

Prerequisite: Science studies at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ FD3025 FOOD STUDIES

The behaviour of foods; nature, properties and behaviour of major nutrients in food; interaction

between major ingredients in certain foods; individual research.

Prerequisite: CH3025

Credit Points: 10 **Contact Hours:** 6 per week

■ **FD3026 FOOD SCIENCE & TECHNOLOGY**

Issue of the food industry in modern society; issues and problems facing consumers and the food industry; food preservation principles; unit processes in the food industry; commercially available food; product development; food technology workshop.

Prerequisite: MB3025

Credit Points: 10 **Contact Hours:** 4 per week

■ **FD3030 FOOD & NUTRITION I**

Issues related to choosing a diet which will promote health; nutritional needs for humans; translating these to food selection and preparation.

Prerequisite: SC3015

Credit Points: 10 **Contact Hours:** 6 per week

■ **FD3031 FOOD & NUTRITION 2**

Nutrition, food science and technology; food studies and food preparation; the nature, properties and behaviour of the major nutrients in food and their nutritional and dietary roles; food composition tables; analysis of experimental work; choosing appropriate practical applications for use in schools.

Prerequisite: FD3030

Credit Points: 10 **Contact Hours:** 6 per week

■ **FD3032 FOOD SCIENCE & TECHNOLOGY**

The role of the food industry in relation to lifestyles in modern societies; the scientific principles and operations involved in the preservation and manufacture of foods; the composition, the ingredients, the labelling and marketing methods of a representative range of commercial foods; current consumer issues such as the safety of food additives, food irradiation, consumer protection, new product development, food regulations and future trends in our food supply.

Prerequisite: Any Level 1 Science subject

Credit Points: 10 **Contact Hours:** 4 per week

■ **FD3033 FOOD PREPARATION & PRESENTATION**

Mastery of advanced techniques and more complex skills in food preparation and presentation with concomitant integration of sound nutrition principles, management, consumerism and skills of communication.

Prerequisites: FD3030, HS3015 and SC3015

Credit Points: 10 **Contact Hours:** 6 per week

■ **FD3034 FOOD MANAGEMENT FOR FAMILIES**

Food habits and attitudes; social and cultural influences; role of the family in developing food habits; nutritional requirements of different age groups; principles of meal management and meal planning; adaptation of meals to special groups.

Prerequisites: FD3025 and NU3025

Credit Points: 8 **Contact Hours:** 5 per week

■ **FD3035 FOOD PRODUCTION & PRESENTATION**

Advanced techniques and complex skills of food production and presentation; commercial production and presentation of food; production and presentation of food for photography or display purposes; food demonstrations; special occasion cookery.

Prerequisites: FD3025 and NU3025

Credit Points: 8 **Contact Hours:** 6 per week

■ **FI2802 VIDEO PRODUCTION & ANALYSIS**

Visual language; use of basic video cameras; shooting and editing on video; documentary and fiction production techniques; use of lighting, camera angle and movement; framing and sound recording; analysis of television programs.

Credit Points: 10 **Contact Hours:** 3 per week

■ **FI3000 FILM LANGUAGE**

How film communicates; development of visual literacy through examination of the nature and function of film language; awareness of 'form' in narrative and non-narrative film; different film structures; basic ideas and terminology of semiotics and structuralism and application to film texts.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 4 per week

■ **FI3001 FILM, SOCIETY & CULTURE**

Examination of a number of popular American films made between the 1930s and the 1980s and the significant political and social movements which they reflect; the films include King Kong, Meet Me in St Louis, On the Waterfront, Rebel Without a Cause, Bonnie and Clyde, and Norma Rae.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 3 per week

■ **FI3002 AUSTRALIAN FILM**

The products of the revival of the Australian film industry in the 1970s and 1980s; how films have attempted to define a national identity; the relationship between films, the film industry and the wider social context; major discourses in Australian culture such as gender representation, nationalism, class, the family, contemporary adolescent culture, race and ethnicity, corruption, urban development and unemployment; the debate between popular and higher culture in the Australian film industry.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 3 per week

■ **FI3003 ASIAN CINEMA**

Recent readings of Asian films, exploring the problems set up by their evaluation within Western critical discourse; study of two of the following national cinemas: China, Japan, India.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 3 per week

■ **FI3004 EUROPEAN CINEMA**

How European cinemas have responded to social and technological change. Students concentrate on the cinema of two of the following countries: Italy, Germany, France.

Prerequisite: Any first year subject in Foreign Languages, Film and Media or English

Credit Points: 10 **Contact Hours:** 3 per week

■ **FI3005 MEDIA PRAXIS I**

Operation of 35 mm single lens reflex cameras and use of appropriate lenses, film stocks and exposure settings; production of photographic prints in a photographic darkroom; operation of basic audio mixing equipment; planning and production of a short audiovisual program using photographic slides and audio cassette tape; operation of basic video recording and editing equipment; planning and production of a short audiovisual program using VHS video equipment; application of visual and audiovisual production codes to the construction of visual and audiovisual texts.

Credit Points: 10 **Contact Hours:** 4 per week

■ FI3006 MEDIA PRAXIS 2

Extension of FI3005.

Prerequisite: FI3005

Credit Points: 10 **Contact Hours:** 4 per week

■ FI3007 DOCUMENTARY FILM

The history and development of the documentary film from the pioneering efforts of Flaherty and Grierson to the work of contemporary film makers such as Berger and Bradbury; how the film makers construct a reality and how the great social issues of the day are reflected in their work.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 3 per week

■ FI3008 FILM GENRES

The notion of genre in films; specification of the conventions and iconography of particular genres; the connection between genre and history/ideology and between genre and industry; the challenge of genre criticism to the notion of personal authorship.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 3 per week

■ FI3009 MEDIA PRAXIS 3

Experimentation with a greater variety of production codes in three areas: still photography, video production and film production.

Prerequisite: FI3006

Credit Points: 10 **Contact Hours:** 4 per week

■ FI3010 MEDIA INSTITUTIONS

The production and distribution of media texts within mass media institutions; evolution of consensus definitions of what the media are and can do, and how alternative definitions are marginalised; issues of the relationship between language, knowledge and power; media policies; how the industry works; production and distribution networks; media ownership and control; the political economy of media institutions in Australia and overseas; the impact of social change and new technologies on media institutions; the media and education.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 3 per week

■ FI3011 FILM HISTORY

The development of the Hollywood continuity style; the Russian montage style; German expressionism and its influence on film noir; modernism; Italian neo-realism and allied movements; 'new waves' in France, Brazil and elsewhere; the influence of new technologies on contemporary film styles.

Prerequisite: EN3035

Credit Points: 10 **Contact Hours:** 4 per week

■ GE2021 LIVING IN CITIES

The cultural basis of human settlement and the factors that contribute to the nature of modern cities (human perception, economic and political processes, the natural environment); the problems caused by over-crowding, urban decay and the unjust distribution of urban services and facilities in Australian, other Western and Third World cities; principles of town planning; field study.

Credit Points: 10 **Contact Hours:** 3 per week

■ GE2800 LIVING BETTER WITH LESS

The 'lucky country' debate focusing on the problems caused by environmental exploitation; contemporary and alternative views on the use of physical and human resources in Australia; the ecology and

economics of agriculture in Australia; the energy problem; living better with less.

Credit Points: 5 **Contact Hours:** 2 per week

■ GE2801 THE BUILT ENVIRONMENT

The architectural heritage of the street-scapes of Queensland country towns; the architectural form of residential buildings in Queensland towns and cities; the process of change in the central areas of large cities; the planning consequences of demographic and social changes in urban areas.

Credit Points: 5 **Contact Hours:** 2 per week

■ GE2805 THEMES IN HUMAN GEOGRAPHY

Demographic aspects of world population; origins of agriculture; the effects of the urban revolution on people; distribution of wealth and difference in living standards; the nature and methods of medical geography; warfare; culture; recreation.

Credit Points: 8 **Contact Hours:** 3 per week

■ GE3005 INTRODUCTION TO CULTURAL GEOGRAPHY

The spatial organisation of world societies, their demographic characteristics, their means of livelihood and interactions with each other; geography viewpoint; cultural diversity; cultural universals; social well-being; perception; diffusion; contemporary affairs.

Credit Points: 10 **Contact Hours:** 3 per week

■ GE3006 PEOPLE & THE NATURAL ENVIRONMENT 1

The geomorphological systems which are creating the surface of the earth and with which human systems interact; the probable effects of the interaction of human and physical systems.

Credit Points: 10 **Contact Hours:** 2 per week

■ GE3007 INTRODUCTION TO GEOGRAPHY

The nature and purpose of geography in terms of its conceptual structure and enquiry approaches; technologies, methods, skills commonly used by geographers.

Credit Points: 10 **Contact Hours:** 3 per week

■ GE3008 PEOPLE & THE NATURAL ENVIRONMENT 2

Global systems; regional patterns of climate, soils, flora and fauna; human influences on global systems, potential effects and mitigation strategies.

Credit Points: 10 **Contact Hours:** 3 per week

■ GE3009 AUSTRALIAN GEOGRAPHICAL STUDIES

Consumer versus conserver values; resources development in Australia; distribution and structure of the Australian population; prospects for sustainable agriculture; energy resources, user patterns, future scenarios; industrialisation in Australia, the benefits and costs of technological changes on resources development.

Credit Points: 10 **Contact Hours:** 3 per week

■ GE3010 LIVING IN CITIES

The cultural basis of human settlement and the factors that contribute to the nature of modern cities (human perception, economic and political processes, the natural environment); the problems caused by over-crowding, urban decay and the unjust distribution of urban services and facilities in Australian, other

Western and Third World cities; principles of town planning; field study.

Credit Points: 10 **Contact Hours:** 3 per week

■ GE3011 ADVANCED GEOGRAPHICAL TECHNIQUES

User-oriented mapping; geographical information systems and the structuring of geographical information; computer-assisted mapping; uses of remote sensing; advanced aerial photography; field skills in geography.

Credit Points: 10 **Contact Hours:** 3 per week

■ GE3012 ENVIRONMENTAL HAZARDS

The nature of hazard, risk and disaster; origins of hazards; nature of disaster; influences on the perception of risk; disaster prediction, preparation, response and recovery strategies.

Credit Points: 10 **Contact Hours:** 3 per week

■ GE3013 ASIAN GEOGRAPHICAL STUDIES

Physical and cultural aspects of Asia; transition from traditional societies; the effect of colonialism; the independence movements; alternative approaches to development; traditional and modern agriculture; trends in manufacturing; tourism; urbanisation; cultural conflict and economic power; alternative approaches to development; trade cooperation and dependency.

Credit Points: 10 **Contact Hours:** 3 per week

■ GE3014 RESOURCES PLANNING & DEVELOPMENT

The social, economic and political implications of the distribution, management and consumption of resources; evaluation of the impact of resources development on social and economic well-being and environmental quality; clarification of the concept of a just society in terms of resources development.

Credit Points: 10 **Contact Hours:** 3 per week

■ GE3015 ADVANCED URBAN GEOGRAPHY

Analysis of socio-political and philosophical perspectives of the urban environment; social stratification; residential differentiation; housing supply and demand; spatial organisation and demand in urban areas; social interaction; environmental planning, power and status; demographic and technological change.

Credit Points: 10 **Contact Hours:** 3 per week

■ GR3801 STUDIES IN GRAPHIC PRINTMAKING

Exploration of the three areas of printmaking: relief, intaglio and planographic; practice and research relative to the aesthetic, technical and design values of printmaking.

Prerequisite: Studies in graphics at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ HE2015 SCHOOL HEALTH EDUCATION

Responsibility of the primary school in health promotion; school-based curriculum development; consideration of the following areas from the Health Education Curriculum Guide: maintenance and promotion of health standards, changes in the environmental lifestyle, consumerism, self-concept, mood and behaviour modifiers.

Prerequisite: PE2085

Credit Points: 6 **Contact Hours:** 2 per week

■ HE2800 HEALTH ISSUES IN AUSTRALIAN SOCIETY

Terminology and research basis of societal health; environmental conditions; technology and change; current health problems; special community groups; the Australian health care system.

Credit Points: 8 **Contact Hours:** 3 per week

■ HE2801 PERSONAL HEALTH

Health and optimal well-being; essential components of good health: emotional, spiritual, physical and socio-cultural well-being, life-cycle concerns.

Credit Points: 8 **Contact Hours:** 3 per week

■ HE2802 CHILD HEALTH

Genetic and environmental factors which affect the health of the child; physical growth and development; vision; hearing; postural patterns of a growing child; development and care of teeth; importance of sound nutrition; communicable diseases of childhood; children with non-communicable diseases; trauma in childhood; emotional disorders; health services for children.

Credit Points: 8 **Contact Hours:** 3 per week

■ HE2900 COMMUNITY STUDIES: FIRST AID

Principles and practice of first aid; cardio-respiratory system; resuscitation; nervous system; haemorrhage and burns; strains, sprains and fractures; poisons, bites and stings; function and care of eyes and ears.

Credit Points: 2 **Contact Hours:** 1 per week

■ HE3002 HEALTH IN THE AUSTRALIAN SOCIETY

Major health concerns of Australians; the multi-dimensional nature of health; initiatives undertaken to address health problems at individual, community, and national levels; prevention as a pivotal concept in health status.

Credit Points: 10 **Contact Hours:** 3 per week

■ HE3031 HEALTH EDUCATION CURRICULUM PLANNING

The nature of curriculum; philosophical orientations to health and health education curriculum planning; the school's responsibility in health education; models of curriculum design in health education; case studies in curriculum design; developing and implementing the health education curriculum; curriculum evaluation.

Prerequisite: CU3040 and health studies at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ HE4007 EPIDEMIOLOGY & ENVIRONMENTAL HEALTH

The interrelationships between disease patterns and the environment; geography, climate, transmission and the susceptible population; distribution of disease in Queensland; factors affecting such distribution.

Prerequisite: HE4010

Credit Points: 10 **Contact Hours:** 3 per week

■ HE4010 HEALTH & LIFESTYLE IN AUSTRALIA

Explanation of a broad range of factors which together define the parameters of the health educator's role in the maintenance of healthy lifestyles in a rapidly changing world; discussion and analysis of health public policy.

Credit Points: 10 **Contact Hours:** 3 per week

■ HE4011 COMMUNICATION THEORY & SKILLS

Analysis and practical experience in the development of communication skills and techniques applicable to individual, small group, community and societal levels in health education.

Prerequisite: HE4010

Credit Points: 10 **Contact Hours:** 3 per week

■ HE4012 RESEARCH & EVALUATION

Introduction to the role of research and evaluation in health education; health promotion; evaluation of health education programs; development of research skills to interpret and analyse current literature in the field; basic statistical methods.

Prerequisite: HE4007

Credit Points: 10 **Contact Hours:** 3 per week

■ HE4013 HEALTH EDUCATION & THE CHANGE PROCESS

Analysis of the process of change as it relates to individual, group and organisational contexts; the role of the health educator as a change agent; the nature of change; how change can be achieved and factors that undermine or negate change.

Prerequisites: HE4010 and HE4011

Credit Points: 10 **Contact Hours:** 3 per week

■ HE4014 SCHOOL HEALTH EDUCATION

Introduction to the field of health education and the roles, functions and areas of responsibility of the health educator; specific focus on nature, scope and place of health education in the total school environment.

Credit Points: 10 **Contact Hours:** 3 per week

■ HE4015 SCHOOL HEALTH PROGRAM PLANNING

Planning, implementation and evaluation of school health programs. Analysis of a range of planning models in health education and health promotion.

Prerequisite: HE4014

Credit Points: 10 **Contact Hours:** 3 per week

■ HE4016 COMMUNITY HEALTH EDUCATION

Introduction to the field of health education with a specific focus on the nature of community health education; environmental, social, political and educational elements supporting and encouraging behaviours conducive to health.

Credit Points: 10 **Contact Hours:** 3 per week

■ HE4017 COMMUNITY HEALTH PROGRAM PLANNING

Planning and implementation of intervention strategies in community health; culminating subject requiring application of knowledge and skills developed over preceding terms of course. Analysis of a range of planning models in health education and health promotion.

Prerequisite: HE4016

Credit Points: 10 **Contact Hours:** 3 per week

■ HE4018 CURRICULUM DESIGN

Theory of curriculum design, development and evaluation; concepts, principles and processes in health curricula design.

Prerequisite: HE4014

Credit Points: 5 **Contact Hours:** 3 per week

■ HE4019 HEALTH BEHAVIOUR CHANGE

Analysis of health-related behaviours which can be modified and identification of the range of behavioural programs; development and

implementation of behaviour change programs for selected health-related behaviours.

Credit Points: 5 **Contact Hours:** 3 per week

■ HE4020 EDUCATION TECHNIQUES FOR HEALTH PROMOTION

Selection and implementation of appropriate educational approaches for health education and health promotion programs.

Prerequisite: HE4016

Credit Points: 5 **Contact Hours:** 3 per week

■ HE4021 HEALTH SERVICES

Community health resources and their operation and service; response of health services to changing community needs.

Credit Points: 5 **Contact Hours:** 3 per week

■ HE4022 COMMUNITY NUTRITION

Analysis of balanced nutrient intake; food consumption in Australia; dietary factors contributing to diseases of affluence; promotion and prevention techniques.

Credit Points: 5 **Contact Hours:** 3 per week

■ HE4023 DRUGS & ALCOHOL

Substance use and abuse; physical, social, emotional and environmental effects; models of drug education; the Australian context; international comparisons.

Credit Points: 5 **Contact Hours:** 3 per week

■ HE4024 HUMAN SEXUALITY

Perspectives on human sexuality; human sexuality throughout the lifespan; laws, ethics and decision making in human sexuality.

Credit Points: 5 **Contact Hours:** 3 per week

■ HE4025 INDEPENDENT STUDIES 1

Work in an area of particular interest relating to specific concerns in health education or health promotion.

Credit Points: 5

■ HE4026 INDEPENDENT STUDIES 2

Work in an area of particular interest relating to specific concerns in health education or health promotion.

Credit Points: 5

■ HE4027 INDEPENDENT STUDY

Work in an area of particular interest relating to school or community health education or health promotion.

Credit Points: 10

■ HI2800 THE AUSTRALIAN SOCIAL CHARACTER

Contribution of migrants, large landowners, bush workers, the trade unions, radicals, women, the armed forces to the development of Australian society; the new Australian; urban Australia; the arts in Australia; sport.

Credit Points: 5 **Contact Hours:** 2 per week

■ HI2801 WOMEN IN HISTORY

The nature of history as a series of tentative interpretations; the 'forgotten people' of history of which women are one group; how to redress the imbalance and develop women's history; women's history as part of the predominant historical paradigm; women's history as social history; developing women's history.

Credit Points: 5 **Contact Hours:** 2 per week

■ HI3010 UNDERSTANDING HISTORY

The nature of history as a discipline; the work of historians; consideration of a specific historical work, using it as a focus for examining more general problems of historical writing and perceptions of history.

Credit Points: 10 **Contact Hours:** 3 per week

■ HI3011 MODERN POLITICAL IDEOLOGIES

Introduction to political values and the political spectrum; the problem with models; right wing ideologies: Nazism, fascism, conservatism; centrist ideologies: liberalism, social democracy; socialism; left wing ideologies: Marxist socialism, anarchism; emerging ideologies: feminism, environmentalism; residual ideologies: racism, imperialism.

Credit Points: 10 **Contact Hours:** 3 per week

■ HI3012 AUSTRALIAN STUDIES

Developments in nineteenth and twentieth century Australia; the Australian legend; Australian nationalism; race relations; federation; foreign policy; Australia's position in the world; the Australian political system.

Credit Points: 10 **Contact Hours:** 3 per week

■ HI3013 THE EMERGENCE OF CIVILISATION

The rediscovery of the ancient past; the growth of archaeology; selected case studies of Egypt, Sumer, early Indian and Chinese civilisations.

Credit Points: 10 **Contact Hours:** 3 per week

■ HI3014 THE CLASSICAL WORLD

Greek society; Greece after the dark age; the emergence of city states; the spread of Greek peoples across the eastern Mediterranean; the development of Athenian democracy; the Peloponnesian War and the decline of the Greek world; the cultural contribution of the Greek world. Roman society; the beginnings of Rome; the early republican government; the struggle for Italy and the western Mediterranean; the breakdown of the republic and the growth of the principate; Rome as master of the Mediterranean; the spread of Christianity; the decline of the empire.

Credit Points: 10 **Contact Hours:** 3 per week

■ HI3015 MODERN CHINA & JAPAN

Historical developments in China and Japan during the nineteenth and twentieth centuries; use of historical evidence to examine commonly held stereotypes of Chinese and Japanese society and to evaluate a variety of explanations relating to the recent history of the area.

Credit Points: 10 **Contact Hours:** 3 per week

■ HI3016 MODERN INDIA & SOUTH EAST ASIA

Inquiry-based study of the struggles for independence in India and Vietnam; ways in which historians bring different analytical frameworks to bear on historical questions.

Credit Points: 10 **Contact Hours:** 3 per week

■ HI3017 EUROPEAN STUDIES 1

European history: developments and relevance; sixteenth century Europe: the renaissance, the reformation and Martin Luther; England in the sixteenth and seventeenth centuries: the English Reformation and the English revolution; the French revolution: Napoleon and the Napoleonic legend; nationalism in the nineteenth century: Italian and German unification; the Third Republic of France and the Dreyfus affair; Bismarkian Germany; Europe in 1900.

Credit Points: 10 **Contact Hours:** 3 per week

■ HI3018 EUROPEAN STUDIES 2

Europe before 1912; the origins of World War I; Europe between the wars – the rise of Fascism; Russia and the USSR – the Revolution of 1917 and its con-

solidation to 1921; World War II – a people's war; the origins of the Cold War; Western Europe – the European Economic Community; Eastern Europe – the USSR – Stalin, Khrushchev, Brezhnev, Gorbachev – Glasnost and Perestroika; Europe in 1992.

Credit Points: 10 **Contact Hours:** 3 per week

■ HI3019 AMERICAN STUDIES

The formative decades; the emergence of the United States and the revolutions of Central and South America; the Monroe Doctrine; expansion across the continent – Canadian and American experiences; the emergence of the United States as a world power; gunboat and dollar diplomacy; American economic imperialism and reactions north and south; the limits to American power.

Credit Points: 10 **Contact Hours:** 3 per week

■ HI3020 WOMEN IN AUSTRALIAN HISTORY

The nature of history as a series of tentative interpretations; the 'forgotten people' of history of which women are one group; how to redress the imbalance and develop women's history; women's history as part of the predominant historical paradigm; women's history as social history; developing women's history.

Credit Points: 10 **Contact Hours:** 3 per week

■ HI3021 HISTORY SEMINAR 1

The following are examples of topics which could form the study focus of this subject: the impact of war on Athenian society; comparisons of the French and Russian revolutions; the west in American history; the impact of colonialism in east Asia; nationalism and leadership in modern Indian history.

Credit Points: 10 **Contact Hours:** 3 per week

■ HI3022 HISTORY SEMINAR 2

The following are examples of topics which could form the study focus of this subject: the impact of war on Athenian society; comparisons of the French and Russian revolutions; the west in American history; the impact of colonialism in east Asia; nationalism and leadership in modern Indian history.

Credit Points: 10 **Contact Hours:** 3 per week

■ HI3702 THE STUDY OF HISTORY

Justification for the teaching and study of history; theories of history; the extent to which history contributes to the acquisition of societal values, beliefs and attitudes; new emphases in the writing of history and their implications for history teaching.

Prerequisite: History studies at Diploma of Teaching level or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ HI3703 ASIAN STUDIES

Cultural frameworks of China and Japan; religion, stratification and social modernisation in India; landscapes of Japan and Hong Kong; perceptions of contemporary China; continuity/discontinuity in Japan's social patterns; implications for modern industrial Japan; Asian models of economic development.

Prerequisite: Relevant studies at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ HI3803 AUSTRALIAN STUDIES

The background to settlement; attitudes and beliefs of early settlers and the extent to which these influenced the development of colonial society; European civilisation and the Aborigine; the origins of an Australian stereotype and development of an ethos;

nationalism and federation, Australia between the wars; Australia since World War II; urbanisation and the rights of the individual.

Credit Points: 12 **Contact Hours:** 3 per week

■ **HS3804 AUSTRALIA'S NEAR NEIGHBOUR INDONESIA**

Influence of the physical environment on population densities and land use systems; ethnic groups; historical survey from pre-European times to Independence; agricultural systems; religion; mining and manufacturing; politics since Independence; problems for the future; the nature and structure of the Indonesian language.

Credit Points: 12 **Contact Hours:** 3 per week

■ **HO3010 SHELTER**

The critical aspects of shelter as a fulfilment of people's basic needs; design, technology and relevant legislation linked to decisions affecting provision of shelter for the differing needs of individuals and families.

Prerequisite: HS3015

Credit Points: 10 **Contact Hours:** 4 per week

■ **HO3011 SHELTER DESIGN**

The linking of human physical and psycho-social needs, environmental and technological issues and design aspects to the effective provision of shelter, with emphasis being placed on the development of advanced skills and knowledge; environmental and technological aspects which have implications on shelter design for the well-being of the individual and families; effective design to accommodate changing family structures; legislative updates.

Prerequisite: HO3010

Credit Points: 10 **Contact Hours:** 4 per week

■ **HO3026 HOUSING STUDIES**

Housing tenure; advantages and disadvantages of ownership/tenancy; housing finance; housing for special groups; special needs in housing; interior environment; housing heritage.

Credit Points: 9 **Contact Hours:** 4 per week

■ **HS3015 HOME ECONOMICS: CONCEPTUAL FOUNDATIONS**

The researching of social issues and of the effects of social issues on individuals in their specific near environment; evaluation of the impact of social issues on physical and psycho-social needs; application of design processes to achieve optimum circumstances within the context of everyday life; the promotion of effective personal living.

Credit Points: 10 **Contact Hours:** 4 per week

■ **HS3033 PRACTICUM 1**

Experience in working in industry, commerce or government; placement at two different organisations each for two weeks.

Credit Points: 3

■ **HS3034 PRACTICUM 2**

Experience in working in industry, commerce or government; placement in one organisation for six weeks.

Prerequisite: HS3033

Credit Points: 4

■ **HS3035 RESEARCH METHODS**

Introduction to research; research in home economics; theoretical elements of research; research types or settings; sampling and measurement; methods of data collection; analysis and interpretation

of data; planning and design of a major research project.

Credit Points: 9 **Contact Hours:** 3 per week

■ **HS3036 THE HOME ECONOMIST AS COUNSELLOR**

The counselling process; major approaches to counselling; models of helping and the helping relationship; communication skills; the home economist as counsellor; moral, ethical and legal responsibility of the home economist as a helping professional.

Prerequisites: PY3048 and SS3025

Credit Points: 8 **Contact Hours:** 3 per week

■ **HS3037 INDEPENDENT STUDY 1**

Self-initiated and self-directed academic study in an area of interest consistent with the overall aims of the course.

Credit Points: 8 **Contact Hours:** 1 per week

■ **HS3038 INDEPENDENT STUDY 2**

Self-initiated and self-directed academic study in an area of interest consistent with the overall aims of the course.

Credit Points: 8 **Contact Hours:** 1 per week

■ **HS3039 RESEARCH PROJECT A**

An indepth investigation of a particular topic of relevance to home economics; field-based research in conjunction with business or community organisations.

Credit Points: 6 **Contact Hours:** 1 per week

■ **HS3040 RESEARCH PROJECT B**

Continuation of HS3039.

Credit Points: 6 **Contact Hours:** 1 per week

■ **HS3042 HOME ECONOMICS APPLIED CURRICULUM**

Issues and problems relating to home economics education; bases for curriculum decision making; nature and structure of home economics; syllabus implementation; student needs; innovation; assessment procedures.

Prerequisite: CU3040 or equivalent and curriculum implementation studies at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ **HW3000 STUDIES IN AUSTRALIAN SOCIETY 1**

Introduction to sociology; analysis of selected sociological concepts; development of a sociological framework; describing Australian society using a variety of social, economic and demographic data; critical review of the influence of common beliefs on the social and economic development of Australian society; experiences of different segments of the population; application of sociological concepts to Australian social structure and institutions.

Credit Points: 10 **Contact Hours:** 3 per week

■ **HW3001 HUMAN DEVELOPMENT 1**

Life events and transitions encountered from birth to the late teen years; theories of human development; theories of childhood and adolescence; childhood and adolescent lifestyles; values clarification regarding children and adolescents; disturbances in childhood and adolescence.

Credit Points: 10 **Contact Hours:** 3 per week

■ **HW3002 HUMAN SERVICE PRINCIPLES 1**

The concepts of social justice, equity and human rights; service consumers and service values; examination of the following principles: Principle 1: consumer rights, Principle 2: individualism, Principle

3: least restrictive alternative, Principle 4: normalisation, Principle 5: self-determination; implications for the worker role.

Credit Points: 10 **Contact Hours:** 4 per week

■ **HW3003 STUDIES IN AUSTRALIAN SOCIETY 2**

Concepts of social structure and social institution; the development and current status of the major social structures and institutions in Australian society; the concept of ideology in sociology; the perspectives of disadvantage.

Prerequisite: HW3000

Credit Points: 10 **Contact Hours:** 3 per week

■ **HW3004 HUMAN DEVELOPMENT 2**

Adult life and transitions; theories of adulthood; models of ageing services; human empowerment.

Prerequisite: HW3001

Credit Points: 10 **Contact Hours:** 3 per week

■ **HW3005 HUMAN SERVICE PRINCIPLES 2**

Perceptions and definition of need; methods of determining need; levels of intervention; distinction between direct and indirect methods of intervention; human service roles and the ideologies of helping.

Prerequisite: HW3002

Credit Points: 10 **Contact Hours:** 4 per week

■ **HW3006 GROUP WORK**

Types of groups and varieties of group experiences; the importance and uniqueness of group medium; understanding behaviour in the group context; theories and models of group development; leader and member behaviours; planning, implementing and evaluating group methods; establishing groups and planning group approaches; the group as a therapeutic community; evaluating group work; ethical issues.

Prerequisite: PY3016 and PY3017

Credit Points: 10 **Contact Hours:** 3 per week

■ **HW3007 ORGANISATIONAL SKILLS 1**

Organisational paradigms; organisational culture and norms; worker socialisation; qualities and attributes of effective workers; self-management skills; interpersonal skills; effective interpersonal relationships.

Prerequisites: PY3016 and PY3017

Credit Points: 10 **Contact Hours:** 3 per week

■ **HW3008 PROFESSIONAL RESOURCES 1**

The family as a resource; networks as resources; non-government systems; government systems; specific Commonwealth resources; issues of access to resources; evaluation of resource systems.

Credit Points: 10 **Contact Hours:** 3 per week

■ **HW3009 FIELDWORK PRACTICE 1**

A twelve-week (360-hour) supervised vocational experience comprising observation of and participation in human service practice.

Prerequisites: HW3002 and HW3005

Credit Points: 30

■ **HW3010 STUDIES IN AUSTRALIAN SOCIETY 3**

The Federal and State government frameworks; essential features of the legal and judicial systems; the structure and decision-making processes of Australia's major political parties; the relationship between ideology and policy; the structures and function of Federal and State bureaucracies; structures and values inherent in Australia's capitalist free enterprise system; the application of a structural analysis

employing the dimensions of class, status, power, race and gender to these frameworks.

Prerequisite: HW3003

Credit Points: 10 **Contact Hours:** 3 per week

■ **HW3011 THE AUSTRALIAN WELFARE STATE**

The definition of the 'welfare state'; moral principles underpinning the 'welfare state'; the development of the 'welfare state' in Australia since colonialism up until the present time; impact of major public policies on the 'welfare state'; achievements and/or failures of the 'welfare state'.

Prerequisite: HW3003

Credit Points: 10 **Contact Hours:** 3 per week

■ **HW3012 COMMUNITY WORK**

Community work defined; community work in Australia; statutory/non-statutory perspectives; community work models; individual preferences; the skills and techniques of (i) entering a community, (ii) building community involvement; (iii) community action.

Prerequisite: HW3006

Credit Points: 10 **Contact Hours:** 3 per week

■ **HW3013 HUMAN SERVICE PRINCIPLES 3**

Intervention principles; interventions at the (i) individual, (ii) small group, (iii) family, (iv) community and (v) organisational level are explored.

Prerequisite: HW3009

Credit Points: 5 **Contact Hours:** 2 per week

■ **HW3014 CONTEMPORARY SOCIAL POLICIES**

Major contemporary social policies within Australian society; policy formation and implementation process; interaction of the political, administrative, economic and legal systems in determining policy outcomes; role of electronic and print media.

Prerequisite: HW3011

Credit Points: 10 **Contact Hours:** 3 per week

■ **HW3015 PROFESSIONAL RESOURCES 2**

Basic statistical methodology; demographic statistics; social statistics; economic statistics; electronic data dissemination methods; statistics and service planning.

Prerequisite: HW3008

Credit Points: 10 **Contact Hours:** 4 per week

■ **HW3016 FIELDWORK PRACTICE 2**

A ten-week (300-hour) supervised vocational experience comprising participation in and increasing responsibility for human service practice.

Prerequisite: HW3009

Credit Points: 20

■ **HW3017 SOCIAL POLICY & SOCIAL CHANGE**

Theories of social change; models of social change; social change in Australia; applying models of change; evaluating social change.

Prerequisite: HW3014

Credit Points: 10 **Contact Hours:** 3 per week

■ **HW3018 ORGANISATIONAL SKILLS 2**

Tasks and functions of managers; managerial paradigms; managerial styles; teamwork in human service organisations; meetings; managing differences and conflicts, innovation and change.

Prerequisite: HW3007

Credit Points: 10 **Contact Hours:** 3 per week

■ HW3019 HUMAN SERVICES PRINCIPLES 4
The practitioner's demands and expectations of human service work; legal requirements; the evaluation of practice; the personal demands of practice and the place of supervision.
Prerequisite: HW3016
Credit Points: 5 **Contact Hours:** 2 per week

■ HW3020 CHILD & FAMILY SERVICES 1
The family in Australia; developmental stages encountered in a family's progression from initiation to dispersal; family dynamics; the definition of dysfunction; development of child and family services; service specific issues.
Credit Points: 10 **Contact Hours:** 3 per week

■ HW3021 DISABILITY SERVICES 1
The structure and function of the human body; attitudes towards disability; the effects of disability on consumers and families; human rights and disability; service provision principles; administrative and legislative structures; individual program planning.
Credit Points: 10 **Contact Hours:** 3 per week

■ HW3022 CORRECTIVE SERVICES 1
Conception of crime; incidence of crime; causal explanations of crime; contemporary theories of crime; offender characteristics; correctional history, purpose and goals; the impact of imprisonment; the victim of crime.
Credit Points: 10 **Contact Hours:** 3 per week

■ HW3023 AGED SERVICES 1
Common modes of adaption to ageing; retirement as continuity or change; assessing capacities for change and innovation in the aged; counselling approaches with the aged; ageing and community support.
Credit Points: 10 **Contact Hours:** 3 per week

■ HW3024 ETHNIC SERVICES 1
The history of immigration to Australia since 1788; attitudes towards immigration and ethnic minorities; the meanings and interpretations of the concepts of multiculturalism, culture, ethnicity, race; Australian government policies of multiculturalism, access and equity; current demographic patterns; theories of racism, assimilation, acculturation, adaption and integration.
Credit Points: 10 **Contact Hours:** 3 per week

■ HW3025 CHILD & FAMILY SERVICES 2
The service framework and the nature of family and youth work; professional self-management strategies; investigation and assessment; short- and long-term intervention strategies; approaches to and issues involved in the provision of services to homeless youth and juvenile offenders; refining interpersonal skills necessary to promote effective client-worker relationships.
Credit Points: 10 **Contact Hours:** 3 per week

■ HW3026 DISABILITY SERVICES 2
Introduction to the major forms of disabilities: intellectual disability; physical disability; chronic medical conditions, sensory impairment and disorder of thinking, feeling and behaving; direct and indirect forms of assistance.
Credit Points: 10 **Contact Hours:** 3 per week

■ HW3027 CORRECTIVE SERVICES 2
The corrective system; staff-inmate relationships; ethics and conduct; methods and approaches to maintaining discipline in a non-threatening manner; inmate views of staff; mob psychology and control.
Credit Points: 10 **Contact Hours:** 3 per week

■ HW3028 AGED SERVICES 2
Home-based and family support systems; community-based support systems; planning and developing needs-based services; patterns of ageing specific to migrants, Aborigines, and the elderly poor.
Credit Points: 10 **Contact Hours:** 3 per week

■ HW3029 ETHNIC SERVICES 2
Characteristics and circumstances of Australia's ethnic minorities including history, culture, familial patterns and religious traditions; cross-cultural application of intervention techniques; culturally specific intervention skills.
Credit Points: 10 **Contact Hours:** 3 per week

■ HW3030 CHILD & FAMILY SERVICES 3
The Commonwealth and State legislation underpinning family and youth services in Queensland; contemporary service philosophies and principles; the organisational types and administrative structures of the major service providers; interface between legislative power and facilitative helping; review, refinement and application of group skills to situations likely to be encountered in family and youth work.
Prerequisites: HW3020 and HW3025
Credit Points: 10 **Contact Hours:** 3 per week

■ HW3031 DISABILITY SERVICES 3
Need for advocacy for various consumer groups; forms of advocacy; self-help and self-advocacy; orientations and approaches to enable clients to become self-determining; design of intervention and support programs; case load management.
Prerequisites: HW3021 and HW3026
Credit Points: 10 **Contact Hours:** 3 per week

■ HW3032 CORRECTIVE SERVICES 3
The Queensland corrective services system; the social and political influences and the development of policy and services for corrective organisations within Queensland; trends and prospects; stratification within correctional service organisations; issues of communication and organisational change.
Prerequisites: HW3022 and HW3027
Credit Points: 10 **Contact Hours:** 3 per week

■ HW3033 AGED SERVICES 3
Assessment skills, client centred assessment and individual planning; major rationales and philosophy underlying specific aged care systems; administration and the creation of a humane environment; program design; the involvement of the consumer in planning; integration of aged service system and support networks in the wider environment of community welfare.
Prerequisites: HW3023 and HW3028
Credit Points: 10 **Contact Hours:** 3 per week

■ HW3034 ETHNIC SERVICES 3
Analysis of the principles of access, equity, cultural sensitivity; consultation and participation; the concepts of racism and discrimination and their expressions in Australian social institutions.
Prerequisites: HW3024 and HW3029
Credit Points: 10 **Contact Hours:** 3 per week

■ HW3035 CHILD & FAMILY SERVICES 4
Innovations in service delivery models; comparison of international and national trends with service delivery within Queensland; literature review; independent study-program design.
Prerequisite: HW3030
Credit Points: 15 **Contact Hours:** 3 per week

■ HW3036 DISABILITY SERVICES 4

National and international trends in the provision of disability services; disability service system and programs in Australia; application of organisational change strategies to disability service systems; independent study.

Prerequisite: HW3031

Credit Points: 15 **Contact Hours:** 3 per week

■ HW3037 CORRECTIVE SERVICES 4

Punishment vs rehabilitation; correctional options; traditional treatment programs; experimental treatment programs; traditional prison management; modern prison management; contemporary community issues; independent study.

Prerequisite: HW3032

Credit Points: 15 **Contact Hours:** 3 per week

■ HW3038 AGED SERVICES 4

National and international trends and innovations in services for aged persons; evaluation and appraisal of service and support systems; elementary accounting skills and budget control; independent study.

Prerequisite: HW3033

Credit Points: 15 **Contact Hours:** 3 per week

■ HW3039 ETHNIC SERVICES 4

Specific service provision systems targeted towards ethnic minorities; ethnic specific programs within general service provision systems; evaluation and appraisal of service delivery systems; application of organisational change strategies to ethnic related services.

Prerequisite: HW3034

Credit Points: 15 **Contact Hours:** 3 per week

■ HW3040 YOUTH SERVICES 1

The development and character of youth services in Australia; practical skills necessary for face to face youth work; minimum standards; professional ethics.

Credit Points: 10 **Contact Hours:** 3 per week

■ HW3041 YOUTH SERVICES 2

A cultural perspective on the experience of young people in Australia; subculture and gender differences in the experience of young people; implications for practice and policy.

Credit Points: 10 **Contact Hours:** 3 per week

■ HW3042 YOUTH SERVICES 3

Statutory and non-statutory areas of youth work, including supported accommodation, juvenile justice, labour market, living skills, health, community work and outdoor education. Development of service delivery and referral skills.

Credit Points: 10 **Contact Hours:** 3 per week

■ HW3043 YOUTH SERVICES 4

Management and policy issues facing youth workers and agencies.

Credit Points: 15 **Contact Hours:** 3 per week

■ HW4000 PERSONAL & INTERPERSONAL SKILLS

An overview of the social context in which human services organisations operate; clarification of the essential qualities and skills of workers; an exploration of the influence of organisations on workers; skill development, including communication, assertive behaviour, personal organisation and time management, career development and job getting, coping with stress, relating to co-workers and managers, and the consultant role.

Credit Points: 10 **Contact Hours:** 3 per week

■ HW4001 MANAGEMENT PRACTICES 1

An exploration of organisational and managerial paradigms, leadership styles, power and authority, organisational structure and design; identification of factors affecting management practice including industrial relations, changing attitudes to authority, trends in legislation, equal rights and financial constraints; development of personal managerial philosophy and style.

Prerequisites: HW4000 and HW4004

Credit Points: 15 **Contact Hours:** 5 per week

■ HW4002 MANAGEMENT PRACTICES 2

Development of knowledge and skills in regard to essential management tasks consistent with principles of participative management including: recruitment and selection of workers; induction of staff training, developing, supporting, appraising and disciplining workers; written and verbal communication; teamwork; meetings, decision making; resolving differences and managing conflict; managing worker stress; recruiting, selecting and deploying volunteers.

Prerequisites: HW4000, HW4001, HW4004 and HW4005

Credit Points: 15 **Contact Hours:** 5 per week

■ HW4003 INNOVATION & CHANGE

Identification of the need for change in human service organisations as a result of new service principles and methods of service delivery; models of change; approaches to the introduction of change; effective change strategies; resistance to change; exploration of successful and unsuccessful change programs in human service organisations.

Prerequisites: HW4000, HW4001, HW4002, HW4004 and HW4005

Credit Points: 10 **Contact Hours:** 3 per week

■ HW4004 SERVICE POLICIES & PRINCIPLES

Introduction to the principles which underpin service delivery in human services organisations such as accessibility, equity, legitimacy, accountability, responsiveness, participation, efficiency, effectiveness, productivity. Introduction to the notion of framework to several human services organisations. Development of students' capacity to apply framework to selected organisations.

Credit Points: 10 **Contact Hours:** 3 per week

■ HW4005 PROGRAM PLANNING & EVALUATION

The purpose of planning; the various contexts in which program planning may apply – similarities and uniqueness; who does the planning? Consistency with organisational philosophy and goals. Collaboration in planning. Program planning steps. The need for accountability; purposes for evaluation. Process evaluation – standards of performance, adequacy, provision of facilities, resources, funds. Impact evaluation – changes in knowledge, attitudes, behaviours. Outcome evaluation – macro changes, eg, health data, Social Security benefits. Designs for evaluation – record keeping to controlled experiment. Analysing and reporting results. How to make use of evaluation.

Prerequisites: HW4000 and HW4004

Credit Points: 10 **Contact Hours:** 3 per week

■ HW4006 MANAGEMENT IN THE COMMUNITY SECTOR

An overview of community management as an alternative method of delivering human services. An analysis of the community sector – positive and negative

live aspects. Development of appropriate management skills in community-based service programs.

Prerequisites: HW4000, HW4001, HW4004 and HW4005

Credit Points: 10 **Contact Hours:** 3 per week

■ HW4007 INDEPENDENT STUDY 1

An indepth study of an organisational issue which has practical value for the organisation in which the student is employed or for another organisation, eg, the development of a staff appraisal system, review of client records.

Prerequisites: HW4000, HW4001, HW4004 and HW4005

Credit Points: 10 **Contact Hours:** 1 per week

■ HW4008 INDEPENDENT STUDY 2

An indepth study of an organisational issue which has practical value for the organisation in which the student is employed or for another organisation, eg, the development of a staff appraisal system, review of client records.

Prerequisites: HW4000, HW4001, HW4002, HW4004 and HW4005

Credit Points: 10 **Contact Hours:** 1 per week

■ IA3801 TECHNOLOGY & CULTURE

Social and psychological aspects of culture; historical perspectives; the age of mechanics; the electronic revolution; political and social aspects of technology; industrialisation and the Third World; educational implications of technical change.

Credit Points: 12 **Contact Hours:** 3 per week

■ IR1017 INDUSTRIAL RELATIONS INSTITUTIONS

An introductory analysis of the theory and practice of industrial relations in which major emphasis is placed upon the role of the parties and the bargaining context in Australia.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR1018 SOCIOLOGY OF WORK

Examination of major theories in the sociology of work; the relationship between the world of work and society; detailed examination of occupations; the labour process and alienation; Australian social structure.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR1019 WORKPLACE ISSUES

Analysis of policies dealing with current industrial relations issues in the workforce. Australian and overseas initiatives.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR1020 INDUSTRIAL RELATIONS SKILLS 2

Vocational skills associated with industrial relations practice; industrial information sources; collection, collation and utilisation of source material; handling industrial situations; meeting law and procedure.

Prerequisite: IR1024

Credit Points: 12 **Contact Hours:** 4 per week

■ IR1021 INDUSTRIAL RELATIONS SKILLS 3

Negotiation processes in industrial relations; duties, responsibilities and skills of negotiators; handling grievances at the workplace; award interpretation; local responsibilities.

Prerequisite: IR1020

Credit Points: 12 **Contact Hours:** 4 per week

■ IR1022 INDUSTRIAL RELATIONS SKILLS 4

Formal advocacy and negotiation; operations within the conciliation and arbitration tribunals; collective bargaining and common law agreements; award creation and variation.

Prerequisite: IR1021

Credit Points: 12 **Contact Hours:** 4 per week

■ IR1023 INDUSTRIAL RELATIONS & MANAGEMENT

Professionalism in industrial relations; pre-emptive bargaining; enterprise bargaining; alternative strategies; functional specialisations and the division of professional labour.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR1024 INDUSTRIAL RELATIONS SKILLS 1

Introduction to industrial relations research; written and oral skills necessary for industrial relations practitioners; research writing and presentation of industrial relations reports.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR1025 AUSTRALIAN DEVELOPMENT

An overview of Australia's industrial development; the development of the arbitration system; the growth of the trade union movement; Australia's changing industrial structure; changing employment trends, new technology, the nature of unemployment, social welfare, and the future of work.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR1026 AUSTRALIAN EMPLOYMENT LAW

Australian legal systems; the Constitution and Federal powers; State legal institutions; the contract of employment; hiring practices and the law; law relating to dismissal and discipline; workers compensation and occupational health and safety laws.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR1027 AUSTRALIAN INDUSTRIAL LAW

Conciliation and arbitration laws; the Federal laws on dispute resolution, the Labour Court, special tribunals, State systems; functioning and regulation of industrial organisations and trade unions; laws relating to strikes and industrial dispute.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR4017 INDUSTRIAL RELATIONS THEORY

Major theoretical approaches to resolution and regulation of conflict in work and employment; theories of collective organisation; bipartite and tripartite schema of labour market regulation and workplace processes.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR4018 COMPARATIVE INDUSTRIAL RELATIONS

Approaches to comparative study; range of legal and institutional forms of industrial regulation, cross-national comparisons of industrial democracy and productivity; detailed study of national models of industrial relations especially Sweden, Japan and Britain.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR4019 EMPLOYMENT LAW

Understanding of institutions, doctrines and methodology of general and industrial law. Analysis of employment relationship; common law contract of employment; worker's compensation; legal liability

for industrial action. Detailed study of the structure of Federal and Queensland industrial relations laws.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR4020 INDUSTRIAL RELATIONS PRACTICES

Current industrial relations practices and policies; research techniques for industrial relations issues, case research, preparation and presentation; institutional framework of industrial relations practices in Australia.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR4021 INDUSTRIAL RELATIONS STRUCTURES

The economic and political context pertinent to Australian industrial relations; development of Australian economy, industry structure, labour markets, wage fixation, current economic strategies and policies.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR4022 INDUSTRIAL LAW

An introduction to industrial law; detailed study of law relating to trade unions and employer organisations; current developments in industrial law.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR4023 INDUSTRIAL RELATIONS POLICIES

Examination of policy formation in industrial relations at national and local level in areas including wage policies, job security, job design, bargaining structure and union matters.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR4024 INDUSTRIAL RELATIONS PROCESSES

Negotiation practices in industrial relations; negotiation and arbitration processes; analysis of structure and performance of institutions of arbitration; development of relevant skills including documentation, preparation of submissions and exhibits, examining witnesses.

Prerequisite: IR4020

Credit Points: 12 **Contact Hours:** 4 per week

■ IR5004 INDUSTRIAL RELATIONS METHODOLOGY

Basic computer skills; data bases and sources of information; a bibliographical exercise; design of a research program; introductory fieldwork.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR5005 ADVANCED THEORY & COMPARATIVISM

Theoretical basis of industrial relations; international industrial relations and Australian comparisons; a theoretical and comparative issue or problem, eg, union or employer organisation, strikes, health and safety.

Prerequisites: Comparative and Theory subjects in GDIR or equivalent

Credit Points: 12 **Contact Hours:** 4 per week

■ IR5006 INDUSTRIAL RELATIONS PLANNING

The formal planning and framework of industrial relations policies and strategies; the content of industrial relations planning, eg, technology, training, superannuation; the relationship of planning to the political and economic environment, including industrial restructuring, capital formation and investment, employment and productivity.

Credit Points: 12 **Contact Hours:** 4 per week

■ IR5007 ADVANCED INDUSTRIAL LAW

Analysis of the legal aspects of a particular industrial relations problem from an Australian perspective; sociological approaches to law; the legislative context of the problem or issue in one or more countries; the international context eg, ILO conventions, EEC directives, European Court decisions from a legal viewpoint.

Prerequisites: GDIR or BBus Industrial Law subjects or equivalent

Credit Points: 12 **Contact Hours:** 4 per week

■ IR5011 THESIS

Synthesis and application of studies undertaken in the course. Topic may be taken from any aspect of industrial relations. Formulation of thesis undertaken in conjunction with supervisor and other academic staff.

Credit Points: 120-168

■ LA2042 LANGUAGE PROCESSES & PROGRAMS

Approaches to language; the classroom environment; planning and implementing programs in language arts; oral language processes; drama in the classroom; reading processes; writing processes; learning about language; resources.

Prerequisite: SS2053

Credit Points: 6 **Contact Hours:** 3 per week

■ LA2810 LOTE (INDONESIAN/JAPANESE/GERMAN) 1

Acquisition of a Language Other Than English (LOTE): Students choose to specialise in one of the following: Indonesian, Japanese or German.

Credit Points: 8 **Contact Hours:** 3 per week

■ LA2811 LOTE (INDONESIAN/JAPANESE/GERMAN) 2

Continuation of LA2810. Further study and acquisition of a Language Other Than English (LOTE).

Credit Points: 8 **Contact Hours:** 3 per week

■ LA3001 JAPANESE LANGUAGE 1

Developing a proficiency and confidence in communicating in the macro skills of listening and speaking in standard Japanese; a critical understanding of some of the special characteristics of Japanese culture and society.

Prerequisite: AS3004

Credit Points: 12 **Contact Hours:** 4 per week

■ LA3002 JAPANESE LANGUAGE 2

Listening and speaking skills at a more advanced level; read and write Japanese nature scripts (Hiragana and Katakana).

Prerequisite: LA3001

Credit Points: 12 **Contact Hours:** 4 per week

■ LA3003 JAPANESE LANGUAGE 3

The development of the four skills of listening, speaking, reading and writing concurrently.

Prerequisite: LA3002

Credit Points: 12 **Contact Hours:** 4 per week

■ LA3004 JAPANESE LANGUAGE 4

An extension of the four macro skills in a business environment.

Prerequisite: LA3003

Credit Points: 12 **Contact Hours:** 4 per week

■ LA3005 MANDARIN LANGUAGE 1

Development of oral and grammatical skills for speaking and writing in Mandarin language; simple speaking and writing exercises.

Prerequisite: AS3004

Credit Points: 12 **Contact Hours:** 4 per week

■ **LA3006 MANDARIN LANGUAGE 2**

Development of oral and grammatical skills at a more advanced level; expansion of Mandarin characters.

Prerequisite: LA3005

Credit Points: 12 **Contact Hours:** 4 per week

■ **LA3007 MANDARIN LANGUAGE 3**

Development of speaking, reading and writing skills based on real life situations in China.

Prerequisite: LA3006

Credit Points: 12 **Contact Hours:** 4 per week

■ **LA3008 MANDARIN LANGUAGE 4**

Development of speaking, reading and writing skills based on business situations.

Prerequisite: LA3007

Credit Points: 12 **Contact Hours:** 4 per week

■ **LA3032 RECENT DEVELOPMENTS IN LANGUAGE/READING**

The nature of language; functions of language; language development; oracy and literacy and their interrelationships; planning and implementation of a language arts subject or program.

Credit Points: 12 **Contact Hours:** 3 per week

■ **LA4010 LANGUAGE IN USE**

Formal systems of language at the level of the sentence, including phonology, morphology, syntax and semantics; formal systems of language beyond the sentence, including discourse, cohesive, pragmatics and paralinguistic. Language in social-cultural contexts; standard and non-standard varieties of language, including dialects, sociolects and languages in contact.

Credit Points: 10 **Contact Hours:** 3 per week

■ **LA4011 LANGUAGE TEACHING IN PRACTICE**

Strategies for observation of second language lessons; analysis of the linguistic content of a variety of lessons; application of these principles.

Co-requisite: LA4010

Credit Points: 10 **Contact Hours:** 3 per week

■ **LA4012 THE NATURE OF LANGUAGE LEARNING**

Behaviouristic, cognitive and psychosocial explanations of second language acquisition/learning; the effect of age on second language acquisition/learning; interlanguage and fossilisation; errors and error analysis; personality factors, cultural differences and environmental factors and language acquisition/learning; language proficiency: its nature and assessment.

Credit Points: 10 **Contact Hours:** 3 per week

■ **LA4018 CURRICULUM DEVELOPMENT**

Implementation of a communicative syllabus response to the objective and subjective needs of particular learners; principles for the evaluation, selection and production of suitable teaching materials.

Credit Points: 10 **Contact Hours:** 3 per week

■ **LB4001 RESOURCE SERVICE ADMINISTRATION**

Study of the school as a social organisation, with the development of skills in the educational administration areas of organisational development; management of self, time, things and other people; and interpersonal relationships, so that individual leadership styles may be developed. Exercises enable teacher-librarian participants to apply the theory and techniques in their own work place.

Prerequisites: All Part A subjects

Credit Points: 10

■ **LB4008 BIBLIOGRAPHIC ORGANISATION**

The purpose and principles of bibliographic control in organising all types of library materials, including the development of an effective catalogue, descriptive cataloguing, subject cataloguing, filing and computer applications.

Credit Points: 9 **Contact Hours:** 3 per week

■ **LB4009 SCHOOL EXPERIENCE**

Participants are provided with opportunities to observe and practise the skills of teacher-librarians in ways which complement their theoretical studies. University staff, in close cooperation with supervising teacher-librarians, plan an appropriate range of activities and compile a report on participants' performance.

Credit Points: 3

■ **LB4010 THE SCHOOL LIBRARY IN MODERN EDUCATION**

Recent developments in Australian education and their implications for the school library; child development and principles of human relationships; the nature, planning and standards of organised resource services at the school level; the role of the teacher-librarian; resource management.

Credit Points: 9 **Contact Hours:** 3 per week

■ **LB4011 BOOKS & PUBLISHING**

The artistic and historical evolution of the book; judgement of book format through an understanding of modern processes; the complexities of the publishing business, past and present.

Credit Points: 9

■ **LB4012 DIRECTED STUDY SUBJECT 2**

An individually tailored subject which allows participants, under the supervision of a staff member, to increase their knowledge in a particular area of interest.

Prerequisite: All Part A subjects; consult the Course Coordinator before enrolment

Credit Points: 9

■ **LB4013 SPECIAL SEMINAR**

Study of a specific aspect of teacher-librarianship, the subject to be determined by the University according to special need and/or the availability of special expertise.

Credit Points: 9

■ **LI2800 CREATIVE WRITING 1**

Using our senses; keeping a journal; expression and communication; playing with words; free and formal verse; description; narration; plotting and characterisation.

Credit Points: 8 **Contact Hours:** 3 per week

■ **LI2801 CREATIVE WRITING 2**

Use of resources (journals, libraries, newspapers, television, radio, one's self); considering the audience to which the writing is directed; parameters of various genres; editing and publishing.

Prerequisite: LI2800

Credit Points: 8 **Contact Hours:** 3 per week

■ **LI2802 CONTEMPORARY LITERATURE**

Growing up in society; literature for children as a literary form and as a means of exploring the world of children; women in society; unemployment; misunderstood people; relations with South-East Asia.

Credit Points: 8 **Contact Hours:** 3 per week

■ LI2808 LITERATURE & DRAMA 1

Extension of the skills of oral interpretation and audience reading fluency introduced in SS2053; selection and adaptation of literary material suitable for audience reading; the development of expressive and communicative interpretation of literature to various listening groups; encouragement of self analysis and analysis of oral reading interpretation via video playback techniques.

Credit Points: 8 **Contact Hours:** 3 per week

■ LI2809 LITERATURE & DRAMA 2

This is an extension of LI2808; techniques and skills of oral interpretation, advanced level; personal development through audience reading and performance literature; cultural enrichment through a broad literary spectrum; original selection, adaptation and orchestration of scripted material; literary performance within an appropriate multi-media setting.

Prerequisite: LI2808

Credit Points: 8 **Contact Hours:** 3 per week

■ LI2810 LITERATURE & WRITING

Explanation of a range of models of writing; the range of writing from picture books to adolescent fiction through different genres, eg, realistic/historical fiction, fantasy, science fiction. Detailed study in a choice of either children's literature or writing for children.

Credit Points: 8 **Contact Hours:** 3 per week

■ LI2811 LITERATURE

A study of one of the following: recent fiction: contemporary novels, plays, poetry and the issues they explore, eg, multiculturalism, the environment; or fantasy and science fiction: a range of publications with emphasis on twentieth century science fiction/fantasy or women writers.

Credit Points: 8 **Contact Hours:** 3 per week

■ LI2812 WRITING

Ranges of models for writing for adults; workshops on writing for adults.

Credit Points: 8 **Contact Hours:** 3 per week

■ LI3004 COMPARATIVE EUROPEAN LITERATURE

Major works of European writers in translation; cross-cultural influences; the growth of Romanticism in Europe: Goethe, the French Romantic poets, Leopardi relative to developments to English literature; other periods in literary history; the nineteenth century novel.

Credit Points: 10 **Contact Hours:** 3 per week

■ LI3701 CHILDREN'S LITERATURE

Evaluative criteria in children's literature; the range of genre in children's literature; bases for planning a children's literature program; teaching strategies.

Prerequisite: Language arts and literature studies at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ LI3702 TUTORING PARENTS AS LITERACY TUTORS

Increasing parent involvement in all areas of decision making in schools; developing communication skills to deal with parents of all educational and socio-economic backgrounds; use of parents as literacy tutors of their children in the home and classroom situation.

Credit Points: 10 **Contact Hours:** 3 per week

■ LI3806 THE APPEAL OF LITERATURE

An individual, personal view of the cultural and social context of literature; the reader and the reading process; the nature of literature; analysis of selected texts: contemporary popular fiction, science fiction,

contemporary women writers, contemporary drama and verse.

Credit Points: 12 **Contact Hours:** 3 per week

■ LS2800 STUDIES IN AUSTRALIAN CULTURE

Australian culture; organising processes applied to Australian culture; origins of Australian culture; the search for identity in Australian culture; confronting the future.

Credit Points: 8 **Contact Hours:** 3 per week

■ LW1002 THE LEGAL PROCESS

Law making process; judicial process; content of criminal, industrial and commercial law in the Australian Commonwealth and States; the Constitution and Federal laws; operation of courts.

Credit Points: 12 **Contact Hours:** 4 per week

■ LW3012 LEGAL STUDIES 1

Australian legal and constitutional system; sources of law, including doctrines and methodology of the law; statutory interpretation; introduction to the Law of Torts with emphasis on the tort of negligence; aspects of consumer protection.

Credit Points: 12 **Contact Hours:** 4 per week

■ LW3013 LEGAL STUDIES 2

Those aspects of law relevant to commercial transactions, with emphasis on the Law of Contract, and including aspects of sale of goods, hire purchase and the relationships of principal and agent; introduction to the Law of Bankruptcy.

Prerequisite: LW3012

Credit Points: 12 **Contact Hours:** 4 per week

■ LW3014 COMPANY LAW

Consideration of the law relating to companies with special emphasis on the requirements of companies.

Prerequisite: LW3012

Credit Points: 12 **Contact Hours:** 4 per week

■ LW3015 TAXATION PRACTICE

Law relating to income taxation covering the provisions of the Australian legislation as it applies to accounting practice; the non-statutory body of law; economic aspects of taxation.

Prerequisite: LW3012

Credit Points: 12 **Contact Hours:** 4 per week

■ LW3016 ADMINISTRATIVE LAW

Institutions and methodology involved in government decision making; constitutional issues affecting the structure of government in Australia; doctrine of repatriation of powers; Westminster style of government; mechanisms for judicial and non-judicial review of government decisions; Federal initiatives such as Administrative Appeals Tribunal and Freedom of Information Act.

Prerequisite: LW3012

Credit Points: 12 **Contact Hours:** 4 per week

■ LW3017 CORPORATE LAW

Legal and mandatory requirements relating to company officers; duties and responsibilities of company secretaries.

Prerequisite: LW3014

Credit Points: 12 **Contact Hours:** 4 per week

■ LW3018 BUSINESS LAW

Aspects of the law relating to meetings; trade practices; insurance; finance and other related commercial transactions.

Prerequisite: LW3012

Credit Points: 12 **Contact Hours:** 4 per week

■ LW3019 LOCAL GOVERNMENT

Local government administration, politics, and systems; analysis of laws, by-laws and regulations pertaining to local governments. (This subject prepares the student for a career as a local government clerk in Queensland.)

Prerequisite: LW3012

Credit Points: 12 **Contact Hours:** 4 per week

■ LW3020 THE LAW & LEGAL INSTITUTIONS

Queensland and Federal legal institutions; appreciation of legal procedures; development of law and its evolution in the Australian context; law enforcement agencies and procedures; basic legal research in case and statute law; examination and critique of strengths and weaknesses of our legal system; active citizenship.

Credit Points: 10 **Contact Hours:** 3 per week

■ LW3021 LAW OF CONTRACT

The development of the law of contract; law governing the formation of contracts; application of the principles of contract law; matters affecting the validity of contracts; remedies for breach of contract; role of equity in modifying common law rules of contract; rational and objective methods in analysis sociolegal issues in contracts.

Credit Points: 10 **Contact Hours:** 3 per week

■ LW3022 LAW OF TORTS

The theoretical bases of Law of Tort in Australia; different types of tort and remedies; application of Law of Tort to case studies; examination of principles through specific decisions in Tort; Tortion remedies available within the social context.

Credit Points: 10 **Contact Hours:** 3 per week

■ LW3023 CRIMINAL LAW & PROCEDURE

The theoretical basis of Criminal Law in Queensland; application of the law to case studies; use of rational and objective methods when examining legal issues; how criminal law operates in practice within a legal and social context; analysis of the balance between the rights of citizens and police powers.

Prerequisite: LW3020

Credit Points: 10 **Contact Hours:** 3 per week

■ LW3024 INDIVIDUAL LEGAL RESPONSIBILITIES

The major statute law affecting an individual's legal responsibilities that are acquired when a person attains the age of 18; current legislation affecting family relationships; the renting and/or buying of a house; relationships between employer and employee.

Prerequisites: LW3020

Credit Points: 10 **Contact Hours:** 3 per week

■ LW3025 LEGAL ENVIRONMENT OF BUSINESS

The major statute law affecting both consumers and business people in the market place; current State and Federal legislation affecting sale of goods, trade practices, advertising, labelling and the general setting up of a business.

Co/Prerequisites: LW3021 and LW3022

Credit Points: 10 **Contact Hours:** 3 per week

■ LW3026 COMMERCIAL LAW

Major topics in commercial law: agency, bailment guarantees, cheques and other negotiable instruments, insurance and banking; aspects of partnerships and company law.

Prerequisite: LW3025

Credit Points: 10 **Contact Hours:** 3 per week

■ LW3027 EDUCATORS & THE LAW

Significant legal issues relevant to the various participants such as educators, teachers, parents and children within the Australian education system.

Prerequisites: LW3020 and LW3022

Credit Points: 10 **Contact Hours:** 3 per week

■ LW3028 INTRODUCTION TO LAW & SOCIAL JUSTICE

The tradition of law as it has evolved in a variety of socio-historical settings as well as the evolution of the specific British/Australian tradition of law; how different concepts of law have evolved; the impact of different views of human nature, political values, and philosophical values on the role of justice and society.

Prerequisites: LW3020 and LW3022

Credit Points: 10 **Contact Hours:** 3 per week

■ LW3029 INTERNATIONAL BUSINESS LAW

Nature of international business; international business contracts; foreign investment in Australia; taxation; dispute settlement; international transport of goods; the effects of international conflict.

Prerequisite: LW3012

Credit Points: 12 **Contact Hours:** 4 per week

■ LW3801 EDUCATORS & THE LAW

Law and its place in contemporary Australian society; sources of "education law"; rights and educators; student law and schools; parents, law and education; educators' rights and obligations; educators and accidents; educational administration and law.

Credit Points: 12 **Contact Hours:** 3 per week

■ MA2089 STUDIES IN MATHEMATICS & SCIENCE

The nature of science and mathematics; mathematics and science in the primary school; curriculum planning; pre-number ideas; early number; the numeration system; concepts of operation; strategies for basic facts; development of algorithms; safety; the Queensland Primary Science Syllabus; life, earth and space.

Credit Points: 12 **Contact Hours:** 6 per week

■ MA2090 MATHEMATICS EDUCATION

The development of space; investigations in space; formalising spatial ideas; fraction concepts and operations; problem solving with fractions; visual representation of information; developing mathematics curricula.

Prerequisite: MA2089

Credit Points: 6 **Contact Hours:** 3 per week

■ MA2091 MATHEMATICS & TECHNOLOGY

Measurement and the young learner; the measurement sequence; the role of technology in measurement; problem solving and the learner; teaching problem solving; applications; technology; curriculum planning.

Credit Points: 8 **Contact Hours:** 3 per week

■ MA2803 EXCURSIONS IN NUMBER

Principles of numeration (ancient methods, Hindu-Arabic system, decimals, bases other than ten); number patterns; divisibility (divisibility tests, Euclid's theorem, Fundamental Theorem of Arithmetic); linear and polynomial congruence (Fermat's and Euler's theorems, Law of Quadratic); reciprocity (Wilson's and Lagrange's theorems); diophantine problems.

Credit Points: 8 **Contact Hours:** 3 per week

■ MA2809 FOUNDATIONS OF MATHEMATICS

Discovery of little things which surprise and entertain; mathematical talking, thinking and playing; mathematics today.

Credit Points: 5 **Contact Hours:** 3 per week

■ MA2811 NUMBERS FOR ALL AGES

Discovery and study of number patterns; classical puzzles from number theory; use of electronic calculators.

Credit Points: 5 **Contact Hours:** 3 per week

■ MA2812 RECREATIONAL MATHEMATICS FOR ALL

Examination, analysis and solution, from a mathematical point of view, of games, paradoxes and fallacies which are of a mathematical nature; mathematics associated with certain manipulatives; patterns that originate from arithmetical, algebraic, geometric and environmental aspects of the discipline.

Credit Points: 5 **Contact Hours:** 2 per week

■ MA2815 MATHEMATICAL FOUNDATIONS

The structures and processes of mathematics used by people of all ages; patterns; relationships; systems.

Credit Points: 8 **Contact Hours:** 3 per week

■ MA2816 BUILDING MATHEMATICAL MODELS

Applications of mathematics to solving real world problems using modelling; graphs including Euler and Hamiltonian paths; probability; statistics.

Credit Points: 8 **Contact Hours:** 3 per week

■ MA2817 THINKING MATHEMATICALLY

The nature of child and adult thinking and learning in the mathematical domain; developing thinking and learning programs through mathematics; applications in the classroom; self-evaluation of thinking and learning in mathematics.

Credit Points: 8 **Contact Hours:** 3 per week

■ MA3010 MATHEMATICAL METHODS 1

Solution models; construction of a model function to describe a given real-world data function; identification of axiomatic system components; application of deductive proof methodologies; identification of 'faulty reasoning'; identification, definition and performance of basic operations with rational, irrational and complex numbers.

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3011 MATHEMATICAL METHODS 2

The generality of mathematics and its relevance to everyday life; identification and simplification of a range of real world problems using graph theory or linear programming; construction of appropriate models in the solution of problems; interpretation and evaluation of models; application of appropriate computer software to aid problem solving.

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3012 CALCULUS 1

Identification and simplification of problems, either mathematical or capable of solution using calculus; determination of appropriate methods using differential or integral calculus for the solution of problems; use of technology in problem solution; interpretation and evaluation of solutions in terms of the original problem.

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3013 PROBABILITY & STATISTICS 1

Fundamental principles of probability theory; application of principles; collection, presentation and interpretation of data; calculation of parameters to infer characteristics; selection, description and employment of appropriate inferential statistical procedures in problem solving.

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3014 APPLIED MATHEMATICS 1

The nature of mathematical modelling; construction of mathematical models for specific physical situations; solution of problems associated with mathematical modelling; interpretation of and remodification of mathematical models.

Prerequisite: MA3012

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3015 NUMERICAL ANALYSIS

Categorisation of mathematical problems; description of computational algorithms for numerical solution of problems; understanding of the mathematical development of numerical algorithms; errors in numerical algorithms and different types; effective use of calculators and computers in executing algorithms.

Prerequisite: MA3012

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3016 OPERATIONS RESEARCH

The rationale and concepts of operation research; analysis of real world problems in terms of given concepts; selection of appropriate concepts and related techniques, based on analysis; formulation of adequate models of problems for solution analysis.

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3017 MODERN ALGEBRA

The process and power of abstraction in mathematics; number systems, relations and equivalence classes; groups, rings and fields; applications of the major topics and theorems presented.

Prerequisite: 3 Level 1 subjects

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3018 LINEAR ALGEBRA

The fundamental concepts of linear algebra and their use in a variety of disciplines; mathematical development and structure; matrices and vectors and their central role in solving systems of linear equations and linear transformations; vector spaces; eigenvalues and eigenvectors; and applications.

Prerequisite: MA3010

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3019 CALCULUS 2

Sequences and series; convergence, divergence; absolute convergence and conditional convergence; approximation of functions using Taylor's theorem; Polar coordinates in describing conic section; application of derivatives and multiple integrals.

Prerequisite: MA3012

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3020 PROBABILITY & STATISTICS 2

Extension of MA3013; Baye's Theorem, moment generating functions, multiple regression, analysis of variance and non-parametric statistics.

Prerequisites: MA3012 and MA3013

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3021 APPLIED MATHEMATICS 2

Natural phenomena including motion in three dimensions, vibrating strings, unsteady heat conduction,

electromagnetism, electrostatics and magnetostatics; modelling of such phenomena mathematically; solution of problems using mathematical ideas including generalised coordinates and Lagrange's equations, generalised functions, scalar and vector fields and vector analysis.

Prerequisite: MA3014

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3022 DIFFERENTIAL EQUATIONS & APPLICATIONS

Modelling techniques and problem-solving methods; first and higher order differential equations, differential equations with variable coefficients, Laplace transformations, systems of linear differential equations, partial differential equations and numerical methods.

Prerequisites: MA3015 and MA3019

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3023 NUMBER THEORY

Prime numbers and their distribution; the Euclidean algorithm; the fundamental theorem of arithmetic; divisibility theory; congruence theory; diophantine problems; Pythagorean triples; convergent sequences for rational numbers and convergent approximations for irrational numbers; finite difference equations; recreational mathematics and number patterns and puzzles; and the contributions to number theory of Euler, Fermat, Wilson, Lagrange, Pascal and Fibonacci.

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3024 GEOMETRICS

Geometrical investigations, inductive activities and deductive exercises; foundation topics associated with geometry; Euclidean geometry, non-Euclidean, affine, finite, projective and topological, the geometry of the sphere, cartography and navigation.

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3025 REAL ANALYSIS

The concepts of limits and continuity and of sequences and series; general topology; integration; functional analysis; convex sets and duality of normed spaces; measure, topology and differentiation; Fourier analysis; convergence, divergence, absolute convergence and conditional convergence; Taylor's theorem; Power series representations of functions; Polar coordinates; functions of two and three variables; applications of derivatives and multiple integrals.

Prerequisite: MA3012

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3026 COMPLEX ANALYSIS

The basic concepts of complex numbers; complex variables, their limits and continuity and their differentiation and integration; Cauchy's integral formulas, Taylor's and Laurent series; the residue theorem; conformal mapping and other special topics involving complex functions.

Prerequisite: MA3019

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3027 DATA ANALYSIS & EXPERIMENTAL DESIGN

Understanding and evaluation of proper experimental and quasi-experimental designs; variables, control, reliability, hypothesis, models and statistical analysis; statistical models; randomised design, general linear model, randomised block design, latin squares, randomised factorial design, block factorial design,

hierarchical design, split-plot design and confounded factorial design; non-parametric tools.

Prerequisites: MA3013 and MA3020

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3028 ADVANCED APPLIED MATHEMATICS

Vector and tensor analysis; conservation equations and continuum mechanics; Navier-Stokes equations of viscous flow; finite deformations; the polar decomposition theorem; finite strain tensors; equations for isotropic linear elasticity.

Prerequisites: MA3019 and MA3021

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3032 CURRICULUM DEVELOPMENT IN MATHEMATICS

Influential factors on the development and content of mathematics curricula; how children and youths learn mathematical concepts; identification of efficient teaching strategies for classroom mathematics; research into an area of mathematics of personal interest to the student.

Prerequisite: CU3040 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ MA3033 MODERN TOPICS IN TEACHING MATHEMATICS

Development of programs for teaching numeration; language in the mathematics program; memorisation strategies; teaching algorithms; measurement and spatial components; problem solving; the role of computers and calculators in the mathematics program. Study school attendance strongly recommended.

Credit Points: 12 **Contact Hours:** 3 per week

■ MA3035 ADVANCED NUMERICAL ANALYSIS

Numerical methods available for solving systems of linear equations; finding eigenvalues and eigenvectors of a matrix and solving partial differential equations.

Prerequisite: MA3015

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3036 ADVANCED OPERATIONS RESEARCH

Linear programming and integer programming; unconstrained and constrained nonlinear programming; multiple objective decision making and heuristic problem solving; application of each technique; computer applications.

Prerequisites: MA3012, MA3016 and MA3018

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3037 HISTORY OF MATHEMATICS

The nature of mathematics; numbers, geometry, logic and paradox; modern mathematical concepts such as undecidability, graph theory and catastrophe theory.

Prerequisite: 4 Level 1 subjects in Mathematics

Credit Points: 10 **Contact Hours:** 3 per week

■ MA3704 CORRECTIVE MATHEMATICS

Learning difficulties in mathematics; organising mathematical learning; formal and informal techniques for diagnosing learning difficulties; overview of the learning process and identification of areas of difficulty; identification of difficulties in problem solving; identifying and remediating specific error patterns; identifying and evaluating resources in the remedial program. Study school for external students strongly recommended.

Prerequisite: Studies in mathematics method at Diploma of Teaching level or equivalent experience

Credit Points: 12 **Contact Hours:** 3 per week

■ MA3705 TEACHING PROBLEM SOLVING IN MATHEMATICS

Definition and importance of problem solving; measures of problem-solving performance; problem-solving strategies; relevant research evidence; suggestions for teaching problem solving.

Prerequisite: Studies in mathematics curriculum or methodology at Diploma of Teaching level and relevant experience

Credit Points: 12 **Contact Hours:** 3 per week

■ MA3802 HISTORY OF MATHEMATICS

Numbers and numeration; methods of calculation; extension of number systems to include rational numbers; the elevation of geometry; the renaissance of geometry; counting numerals and calculations; origins and development of the calculus. Incompatible with previous studies in history of mathematics.

Credit Points: 12 **Contact Hours:** 3 per week

■ MA4015 DIAGNOSTIC ASSESSMENT IN MATHEMATICS

Overview of numerical and conceptual learning difficulties in mathematics; learning experiences in various areas of mathematics; utility of mathematics in real life situations; examination of mathematics in other curriculum areas; learning experiences in the integration of mathematical topics; use of hand-held calculator and the computer as aids to conceptual development and as practical tools; geometric and algebraic concepts across the curriculum; error analysis and diagnostic inventories; remedial strategies.

Credit Points: 10 **Contact Hours:** 3 per week

■ MA4019 STUDIES IN MATHEMATICS & TECHNOLOGY 1

The nature of mathematics; number and numerations; operations, facts, algorithms and early algebra; calculators and computers; spatial concepts; visual representation of information; developing mathematics curricula.

Credit Points: 8 **Contact Hours:** 2 per week

■ MA4023 STUDIES IN MATHEMATICS & TECHNOLOGY 2

Fraction concepts and operations; measurement and the role of technology; problem solving; unit planning.

Credit Points: 4 **Contact Hours:** 2 per week

■ MA5060 THESIS IN MATHEMATICS EDUCATION 1

Application of coursework theory to a literature survey, a critical analysis, or the development of a curriculum package.

Prerequisite: MA5068

Credit Points: 48

■ MA5061 THESIS IN MATHEMATICS EDUCATION 2

Application of coursework theory to solution of a selected problem.

Prerequisite: MA5068

Credit Points: 96

■ MA5062 THESIS IN MATHEMATICS EDUCATION 3

Application of coursework theory to solution of a selected problem; the development of a major thesis.

Prerequisite: MA5068

Credit Points: 144

■ MA5063 PERSPECTIVES IN MATHEMATICS EDUCATION

Philosophical, sociological and historical influences on mathematics education; psychological underpinnings of the history of mathematics instruction; theories of instruction; socio-cultural factors in the formation of mathematics; issues in the learning of mathematics (eg, girls and mathematics, problem solving).

Credit Points: 12 **Contact Hours:** 3 per week

■ MA5064 CURRICULUM STUDIES IN MATHEMATICS

History of mathematics curriculum; curriculum models; curriculum design and evaluation; components of mathematics programs; curriculum change; modern curriculum developments in mathematics.

Credit Points: 12 **Contact Hours:** 3 per week

■ MA5065 PSYCHOLOGY OF MATHEMATICS EDUCATION

The implications of psychological theory and research for teaching mathematics; modern theories of cognitive development, information processing and cognitive neurophysiology.

Prerequisite: MA5063

Credit Points: 12 **Contact Hours:** 3 per week

■ MA5066 RESEARCH & EVALUATION TECHNIQUES

Techniques of research and evaluation (eg, observation, protocol methods, tests, and surveys); theoretical and epistemological frameworks for research and evaluation; types of research; qualitative and quantitative methods (eg, case studies, clinical interviews, action research, teaching experiments, correlational studies, historical studies, and experimental designs); literature searches and surveys.

Credit Points: 12 **Contact Hours:** 3 per week

■ MA5067 RESEARCH & EVALUATION DESIGN

Designing research and evaluation studies (applying theoretical aspects of research and evaluation to practical situations); basic experimental design and statistical analysis; evaluating research designs; scholarly writing of proposals and reports.

Prerequisite: MA5066

Credit Points: 12 **Contact Hours:** 3 per week

■ MA5068 RESEARCH IN MATHEMATICS EDUCATION

Research techniques appropriate to mathematics education; key areas of research investigations in mathematics; interpreting planning and critically assessing mathematics education research.

Prerequisites: MA5065 and MA5067

Credit Points: 12 **Contact Hours:** 3 per week

■ MA5069 CURRICULUM SPECIALISATION IN MATHEMATICS

Opportunity for indepth study of a curriculum topic or year level of own choice; planning, constructing, implementing and evaluating mathematics curricula and instructional programs.

Credit Points: 12 **Contact Hours:** 3 per week

■ MA5070 DIAGNOSIS & ASSESSMENT IN MATHEMATICS

Techniques for diagnosing and remediating difficulties in mathematics; assessment models and their interrelationship with instruction; designing assessment instruments; modern developments in classroom evaluation; practical work with clients.

Credit Points: 12 **Contact Hours:** 3 per week

■ MA5071 TECHNOLOGY IN MATHEMATICS EDUCATION

The role of technology, particularly microcomputers, in teaching mathematics; programming; integrating technology into the mathematics curricula; spreadsheets and other software; artificial intelligence and expert systems.

Credit Points: 12 **Contact Hours:** 3 per week

■ MA5072 SOCIAL CONTEXTS IN MATHEMATICS EDUCATION

The social context of the mathematics classroom; the effect of gender, social class and cultural background on mathematics learning; power and politics in mathematics and schooling; student-teacher interactions and mathematical knowledge; mathematisation, the global village and the future of mathematics.

Credit Points: 12 **Contact Hours:** 3 per week

■ MA5073 LEADERSHIP IN MATHEMATICS EDUCATION

Elements of supervision, including policy formulation, decision making, implementation, organisation, and evaluation as they relate to curriculum development; inservice education, and liaison with professional and community bodies; historical and current approaches in mathematics teacher education; contemporary recommendations regarding teaching and teacher education; examining and evaluating promising emerging models in mathematics teacher education.

Credit Points: 12 **Contact Hours:** 3 per week

■ MA5074 INDEPENDENT STUDY

Opportunity to study an aspect of mathematics of particular interest; working on an individual basis with a lecturer.

Credit Points: 12

■ MA5075 ADVANCED SEMINARS

Opportunity to participate in a special subject organised around a particular interest, or a visiting expert.

Credit Points: 12

■ MA5076 NUMBER THEORY

Divisibility, Euclid's theorem, fundamental theorem of arithmetic, and distribution of primes; congruence theory; linear and non-linear diophantine problems and Pythagorean triples; continued fractions, convergent approximation for irrational numbers and Pell's equation; number theoretic functions and quadratic reciprocity; the mathematics of Euler, Fermat, Wilson, Lagrange, Pascal, Fibonacci, Lucas and Farey; algebraic number fields.

Credit Points: 12 **Contact Hours:** 3 per week

■ MA5077 DISCRETE MATHEMATICS & APPLICATIONS

Markov chain models including regular, ergodic and absorbing chains; the theory of linear optimisation models; geometric and computational aspects of linear optimisation; models involving chance, choice and competition including zero-sum games and non zero games; growth models for epidemics, rumours and queues.

Credit Points: 12 **Contact Hours:** 3 per week

■ MA5078 COMPUTING & STATISTICAL METHODS

Numerical methods for the solution of non-linear equations and systems of linear equations; interpolation and extrapolation; curve fitting; fundamental principles of the architecture and operation of digital computer systems; data structuring and abstraction,

knowledge representation and programming as problem solving; statistical concepts, procedures and computer applications.

Credit Points: 12 **Contact Hours:** 3 per week

■ MA5079 HISTORY & PHILOSOPHY OF MATHEMATICS

The background of the natural origins of aspects of mathematics relevant for teaching in schools; philosophical aspects of the development of mathematics; analysis of the history of mathematics with special focus on issues in calculus, algebra and geometry; relationships of these to the teaching of mathematics in secondary schools.

Credit Points: 12 **Contact Hours:** 3 per week

■ MA5080 FUNDAMENTAL STRUCTURES IN MATHEMATICS

Basic structures of mathematics (eg, groups, fields, ideals, and equivalence and order relations); fundamental theorems and their application as recurring themes in school mathematics.

Credit Points: 12 **Contact Hours:** 3 per week

■ MB3025 MICROBIOLOGY

Scope of microbiology; characteristics of major microbial types; microbial metabolism; water; food and micro-organisms; principles of food presentation; spoilage of food; food-borne disease; food hygiene; microbial fermentation of foods; environmental and industrial microbiology.

Prerequisites: BI3025 and CH3025

Credit Points: 10 **Contact Hours:** 5 per week

■ ME2800 UNDERSTANDING TELEVISION

Introduction to visual analysis: tele-literacy; analysis of title sequences; narrative sequences; film shots; introductory genre; situation comedy; soap opera; crime shows; news.

Credit Points: 5 **Contact Hours:** 2 per week

■ ME3001 FOUNDATION MEDIA STUDIES 2

Development of a visual dialogue through a series of projects within and outside the studio with a view to understanding relationships between the theoretical and practical aspects of art and developing a philosophical basis for professional attitudes and original thinking; research into the knowledge and resources available; development of the ability to evaluate aesthetic qualities in the student's own work.

Prerequisite: ME3012

Credit Points: 30 **Contact Hours:** 10 per week

■ ME3002 ADVANCED MEDIA STUDIES 1

Students are expected to research into their own personal directions, formulate and develop self-generated enquiry and demonstrate the acquisition of working methods, skills and knowledge required for the successful realisation of their concepts. Students present a program to the Course Coordinator which will indicate specific studies in the two-dimensional or three-dimensional areas or a combination of these.

Prerequisite: ME3001

Credit Points: 30 **Contact Hours:** 10 per week

■ ME3003 ADVANCED MEDIA STUDIES 2

Students prepare and present a plan of studies based on their own specific interest; rigorous questioning of concept and artefact will be required with the level of realisation and the ways in which media are used reflecting a high level of achievement. Further

workshops in areas where the acquisition of skills is essential.

Prerequisite: ME3002

Credit Points: 20 **Contact Hours:** 8 per week

■ ME3004 ADVANCED MEDIA STUDIES 3

Students are expected to work independently demonstrating sound habits of research and sustained studio practice; skills developed in ME3001 and ME3002 should enable concepts to be expressed with confidence; intensive studio work to draw together the students' interest in the visual arts in general and their specific study in particular.

Prerequisite: ME3003

Credit Points: 20 **Contact Hours:** 8 per week

■ ME3005 ADVANCED MEDIA STUDIES 4

Independent work in preparation for an exhibition.

Prerequisite: ME3004

Credit Points: 20 **Contact Hours:** 8 per week

■ ME3006 EXTENDED MEDIA STUDY 1

Students are required to prepare and present a plan of studies based on their own particular interests and participate in workshops where the acquisition of skills is essential to the solution of problems and achievement of high levels of performance.

Credit Points: 20 **Contact Hours:** 6 per week

■ ME3007 EXTENDED MEDIA STUDY 2

See ME3006.

Credit Points: 10 **Contact Hours:** 3 per week

■ ME3008 EXTENDED MEDIA STUDY 3

Students are expected to be able to work independently and demonstrate sound habits of research and sustained studio practice. The studio will be regarded as the area on which to draw together the students' interests in the visual arts in general and their specific study in particular.

Credit Points: 20 **Contact Hours:** 6 per week

■ ME3009 EXTENDED MEDIA STUDY 4

See ME3008.

Credit Points: 10 **Contact Hours:** 3 per week

■ ME3012 FOUNDATION MEDIA STUDIES 1

Familiarisation with resources available within and outside the University (exhibition spaces, working environments, institutions, the materials and tools of art-making facilities, printed and visual resources); individual and group projects introducing a variety of visual art problems.

Credit Points: 30 **Contact Hours:** 18 per week

■ ME4007 MEDIA PRODUCTION & USE

The micro-computer and production; learning centres and bulletin boards; uses for the overhead projector; design of visual images; selection, operation and maintenance of audio equipment, 16mm projectors, video; slide-tape production; the operation of a 35mm camera and development of black-and-white photographs.

Credit Points: 9 **Contact Hours:** 3 per week

■ ME4008 MEDIA, SCHOOL & SOCIETY

Mass media communication processes; influences of media formats; media control and ownership, techniques of advertising; educational applications of mass media.

Prerequisites: All Part A subjects

Credit Points: 9

■ MG3025 INTRODUCTION TO MANAGEMENT

The role of management; evolution of management theory; fundamentals of planning; decision making in organisations; fundamental organisation; group dynamics and informal organisations; human resources management; motivation; leadership; principles of communication; the management of change.

Credit Points: 10 **Contact Hours:** 3 per week

■ MG3026 RESOURCE MANAGEMENT

The family as a social system; resources and constraints related to the life cycle; management in the family context; the family in Australia; managing finance.

Prerequisite: MG3025

Credit Points: 10 **Contact Hours:** 3 per week

■ MG3027 BUSINESS ORGANISATION

The structure of business organisations; types of organisations; business objectives, strategies and policies; functions within business organisations; the role of unions and the nature of industrial relations in Australia; women's issues.

Prerequisite: MG3025

Credit Points: 10 **Contact Hours:** 3 per week

■ MK3013 CONSUMER BEHAVIOUR

Consumer motivation; consumer personality and attitudes; consumer decision processes; group influences in marketing.

Prerequisite: MK3019

Credit Points: 12 **Contact Hours:** 4 per week

■ MK3014 BUSINESS FORECASTING

Forecasting problems; forecasting methods including Delphi, time series analysis and causal models.

Credit Points: 12 **Contact Hours:** 4 per week

■ MK3015 MARKET RESEARCH

Problem definition; research planning; analysis, interpretation and utilisation of research data; quantitative techniques.

Prerequisite: MK3013

Credit Points: 12 **Contact Hours:** 4 per week

■ MK3016 LOGISTICS

Business logistics management deals with the coordination, planning, organisation and control of all move-store activities that facilitate product flow from the point of raw material acquisition to the point of final consumption, and in this process involves provision of the attendant research and information flows for the purpose of providing the requisite level of customer service.

Prerequisite: MK3020

Credit Points: 12 **Contact Hours:** 4 per week

■ MK3017 COMPUTER APPLICATIONS IN MARKETING

Application of computer packages, including SPSS and various statistical/marketing packages.

Prerequisites: MK3014 and MK3020

Credit Points: 12 **Contact Hours:** 4 per week

■ MK3018 APPLIED MARKET RESEARCH

The capstone application of theoretical concepts studied in the areas of: marketing, market research, communication, management, data analysis and report writing; a market research project for industry.

Prerequisites: MK3015 and MK3020

Credit Points: 12 **Contact Hours:** 4 per week

■ **MK3019 INTRODUCTORY MARKETING**
Assessment of market opportunities; organisation of the firm for marketing; planning the marketing program; measurement of market performance.
Credit Points: 12 **Contact Hours:** 4 per week

■ **MK3020 STRATEGIC MARKETING**
Product planning including development of product mix and product life cycle; pricing, distribution, advertising and promotion decisions.
Prerequisite: MK3019
Credit Points: 12 **Contact Hours:** 4 per week

■ **MK3021 INTERNATIONAL MARKETING**
The foreign exchange market; fixed and floating exchange rates, buying and selling overseas; the export decision; export promotion.
Prerequisites: EC3029 and MK3020
Credit Points: 12 **Contact Hours:** 4 per week

■ **MK3022 BUSINESS QUANTITATIVE METHODS I**
Linear functions; systems of linear equations; matrix algebra; linear programming; quadratic functions; exponential and logarithmic functions; differential calculus; partial differentiation.
Credit Points: 12 **Contact Hours:** 4 per week

■ **MK3023 BUSINESS QUANTITATIVE METHODS 2**
Descriptive statistics; probability; probability distributions; discrete distributions – binomial and hypergeometric, continuous distribution – normal; sampling distributions; statistical inference – estimation and hypothesis testing; non-parametric test – chi-square tests of goodness of fit and independence; simple linear regression and correlation.
Prerequisite: MK3022
Credit Points: 12 **Contact Hours:** 4 per week

■ **MK3024 INTRODUCTORY ECONOMETRICS**
Linear programming; simplex method; duality; sensitivity analysis; multiple linear regression; general linear model in matrix form; heteroscedasticity; multicollinearity and autocorrelation; decision theory.
Prerequisite: MK3023
Credit Points: 12 **Contact Hours:** 4 per week

■ **MK3026 PRODUCT DEVELOPMENT**
The consumer market; product development; critical path analysis and network planning; idea generation and product evaluation; feasibility study and product cost analysis; quality assurance; the production and marketing of products; career prospects.
Credit Points: 8 **Contact Hours:** 3 per week

■ **MK3028 MARKET SIMULATION**
Managerial and behavioural theories of the firm; pricing under monopoly and oligopoly; average cost pricing, unit pricing; structure, conduct and performance in industry; public policy and its effect on behaviour of the firm.
Credit Points: 12 **Contact Hours:** 4 per week

■ **MK4005 QUANTITATIVE METHODS FOR BUSINESS**
Descriptive statistics; statistical inference; simple linear correlations, regressions and analysis; time series; forecasting; index numbers; computer packages.
Credit Points: 12 **Contact Hours:** 4 per week

■ **MK4006 ENTREPRENEURSHIP**
Introduction to the Business Plan; entrepreneurial management; organisational strategy; legal and con-

tractual aspects; marketing function; marketing research; market strategies; venture financing; cash flow forecasting; writing a Business Plan.
Prerequisite: Completion of 40 credit points towards GradDipBus – Administration
Credit Points: 12 **Contact Hours:** 4 per week

■ **MK4007 MARKETING FOR MANAGERS**
Principles and applications of marketing; consumer behaviour; strategic marketing; pricing policies; market research; market planning and implementation.
Credit Points: 12 **Contact Hours:** 4 per week

■ **MK5004 ADVANCED QUANTITATIVE RESEARCH METHODS**
Conceptual foundations of research design; research methodologies; data sources; methods of observation and data collection; data analysis; evaluation.
Prerequisite: MK3024 or equivalent. A high level of performance in subjects in statistics and applied statistics at undergraduate level is assumed. Knowledge of computing and use of computer packages is highly desirable.
Credit Points: 12 **Contact Hours:** 4 per week

■ **MK5005 BUSINESS FORECASTING TECHNIQUES**
Exponential and moving average techniques; decomposition models; seasonal regression models; stochastic models; stationary and non-stationary models; model identification and estimation; diagnostic checking; transfer functions.
Prerequisite: MK3014 or equivalent
Credit Points: 12 **Contact Hours:** 4 per week

■ **MK5006 BUSINESS LOGISTICS**
The integrated physical distribution management concept; customer service; inventory policy, analysis and decision making; selection of distribution channels, channel design and strategy; transport systems and model choice; modelling the facility location, optimising size, siting and network; logistics and pricing; organisational implementation of the marketing logistics concepts.
Prerequisite: MK3014, MK3024 or equivalent
Credit Points: 12 **Contact Hours:** 4 per week

■ **MK5007 ADVANCED MARKETING SIMULATION**
The economics of risk and uncertainty; quantitative estimation of demand and costs; market structures and pricing practices; multi-product pricing; transfer pricing; capital budgeting.
Prerequisite: Economics to Bachelor's degree level
Credit Points: 12 **Contact Hours:** 4 per week

■ **MK5011 THESIS**
Synthesis and application of studies undertaken in the course. Topic may be taken from any aspect of marketing science. Formulation of thesis undertaken in conjunction with supervisor and other academic staff.
Credit Points: 120-168

■ **ML3005 FRENCH LANGUAGE 1**
Development of the four language skills: listening, speaking, reading and writing; acquisition of knowledge and skills to perform various language functions in a variety of settings.
Credit Points: 10 **Contact Hours:** 5 per week

■ **ML3006 FRENCH LANGUAGE 2**
Extension of ML3005.
Prerequisite: ML3005
Credit Points: 10 **Contact Hours:** 5 per week

■ ML3007 FRENCH LANGUAGE & LITERATURE 1

Development of the four language skills; literary texts where the prevailing ideas are seen to be revolutionary in some way, whether individually, socially, or philosophically; (Voltaire, Rousseau, Sartre, Rimbaud, Robbe-Grillet) where language and genre are at issue.

Prerequisite: ML3006

Credit Points: 10 **Contact Hours:** 3 per week

■ ML3008 FRENCH LANGUAGE & LITERATURE 2

Continuing development of the four language skills; studies in conflict in French literature.

Prerequisite: ML3006

Credit Points: 10 **Contact Hours:** 3 per week

■ ML3009 FRENCH LANGUAGE & LITERATURE 3

Continuing development of the four language skills; studies in relationships between men and women in French literature.

Prerequisite: ML3006

Credit Points: 10 **Contact Hours:** 3 per week

■ ML3010 FRENCH LANGUAGE & LITERATURE 4

Continuing development of the four language skills; study of a variety of French texts where there is the possibility of analysing different aspects of the concept of hero or heroine.

Prerequisite: ML3006

Credit Points: 10 **Contact Hours:** 3 per week

■ ML3017 ITALIAN LANGUAGE 1

Functional development of the four language skills; systematic study of Italian grammar to consolidate language structures.

Credit Points: 10 **Contact Hours:** 4 per week

■ ML3018 ITALIAN LANGUAGE 2

Extension of ML3017.

Prerequisite: ML3017

Credit Points: 10 **Contact Hours:** 4 per week

■ ML3019 ITALIAN LANGUAGE & LITERATURE 1

Italian grammar; writing, listening and speaking skills; reading of prose and poetry; reading and performance of a play.

Prerequisite: ML3018

Credit Points: 10 **Contact Hours:** 3 per week

■ ML3020 ITALIAN LANGUAGE & LITERATURE 2

Difficult aspects of Italian grammar; systematic study of the literature of the Middle Ages.

Prerequisite: ML3019

Credit Points: 10 **Contact Hours:** 3 per week

■ ML3021 ITALIAN LANGUAGE & LITERATURE 3

Further development of language skills; literature from the Renaissance to the nineteenth century; development of the Italian language; dialects; Italian spoken by migrants in Australia.

Prerequisite: ML3020

Credit Points: 10 **Contact Hours:** 3 per week

■ MU2102 MUSIC EDUCATION

The role of the music educator; development of personal musical skills; concept development: rhythmic notation, form, harmony, texture and timbre, dynamics; music learning experiences.

Credit Points: 6 **Contact Hours:** 2 per week

■ MU2700 CONTEXTS FOR TEACHING & LEARNING

Music curriculum models; the needs of learners from varied cultural backgrounds; stages of musical development; program development and teaching strategies.

Credit Points: 8 **Contact Hours:** 3 per week

■ MU2701 APPROACHES TO MUSIC EDUCATION

Philosophy objectives and content of four music programs; implementation of some aspect of these programs; improvement of teaching techniques.

Credit Points: 8 **Contact Hours:** 3 per week

■ MU2702 CLASS PROGRAM DEVELOPMENT IN MUSIC EDUCATION

The music curriculum; the nature of curricula in the arts; current research in children's musical development; linkages between musical development and overall growth; interpersonal relationships in the context of class, school, bands/choir, theatre and the community.

Credit Points: 8 **Contact Hours:** 3 per week

■ MU2703 VOCAL STUDIES

Breathing for singing; voice production; sight singing; repertoire selection; ensemble singing; conducting; conducting and analysis.

Credit Points: 8 **Contact Hours:** 3 per week

■ MU2704 INSTRUMENTAL STUDIES

Performance skills in solo performance with ensemble backing; score reading and analysing arrangements; tuning and conducting techniques; practical work styles of contemporary composers.

Credit Points: 8 **Contact Hours:** 3 per week

■ MU2705 PRACTICAL MUSICIANSHIP

Literature suitable for school use and its performance score reading and interpretation; conducting; music writing.

Credit Points: 8 **Contact Hours:** 3 per week

■ MU2708 ALTERNATIVE APPROACHES TO MUSIC EDUCATION

Introduction to philosophy and techniques of the different approaches of Orff, Dalcroze, Suzuki; comparison between these approaches and the Queensland programs.

Credit Points: 8 **Contact Hours:** 3 per week

■ MU2710 PERFORMANCE PRACTICE

Continuation of conducting and rehearsal techniques; instrumental and vocal instruction; rehearsals of small ensembles as both leaders and performers; researching the repertoire of suitable ensemble music; solo or ensemble performance at a public recital.

Prerequisite: Advanced skills in playing chosen instrument

Credit Points: 8 **Contact Hours:** 3 per week

■ MU2713 MUSIC IN MULTICULTURALISM

Scope and purpose of ethnomusicology; the role of music in culture; the multicultural nature of Australian society; the role of music in a multicultural society; the use of ethnic music in the classroom; songs and dances of various ethnic communities; seminars on fieldwork.

Credit Points: 8 **Contact Hours:** 3 per week

■ MU2800 GUITAR WORKSHOP

Development of skill in playing basic guitar chords, strumming suitable rhythmic patterns and leading of group singing with guitar.

Prerequisite: Available only to beginners or those with little recent experience on guitar

Credit Points: 5 **Contact Hours:** 2 per week

■ MU2802 PIANO FOR BEGINNERS

Introduction to the piano as a practical instrument for use in both recreational and classroom situations; sight reading; harmonisation.

Prerequisite: Available only to those with no previous experience on piano

Credit Points: 5 **Contact Hours:** 2 per week

■ MU2803 PIANO WORKSHOP 1

Development of keyboard skills relevant to both recreational and classroom situations; sight reading; accompaniment; performance of pieces.

Co/Prerequisite: MU2802 or equivalent

Credit Points: 5 **Contact Hours:** 2 per week

■ MU2809 VOCAL STUDIES 1

Breathing for singing (muscular control, use of lungs and diaphragm, control in inhaling and exhaling); voice production (sound mechanisms, vowel and consonant shaping, attacking and releasing notes, articulation); sight singing; ensemble singing; conducting.

Credit Points: 8 **Contact Hours:** 3 per week

■ MU2814 EXPLORING MUSIC

Use of recorder, percussion instruments, voice, autoharp, movement and speech to develop a familiarity with music; building a vocabulary for understanding the language of music and movement.

Credit Points: 5 **Contact Hours:** 3 per week

■ MU2816 MUSICIANSHIP

Aural training; movement as an aid to musical understanding; appreciation of music from primitive times to the twentieth century including knowledge of composers, styles etc.; harmonisation explored through singing rounds and part songs, and by providing instrumental accompaniments in various styles; development of instrumental skills.

Credit Points: 10 **Contact Hours:** 3 per week

■ MU2817 GROUP INSTRUMENTAL

Participation in group instrumental performance using a variety of instruments; playing instruments for use in ensemble work; ensemble techniques in singing; part-writing; performing in ensemble.

Prerequisite: MU2814 or equivalent

Credit Points: 10 **Contact Hours:** 4 per week

■ MU2824 VOCAL STUDIES 2

Development of vocal range and tone colour; stylistic singing; improvisation; repertoire selection; conducting and analysis.

Prerequisite: MU2809

Credit Points: 8 **Contact Hours:** 3 per week

■ MU2827 INSTRUMENTAL MUSIC 1

Performance skills on selected instruments; development of musicianship; simple composition for ensemble with group performance of student compositions.

Credit Points: 8 **Contact Hours:** 3 per week

■ MU2828 INSTRUMENTAL MUSIC 2

Performance and accompaniment skills; more advanced musicianship, composition and arrangements and performance for ensembles in four or five parts.

Prerequisite: MU2827

Credit Points: 8 **Contact Hours:** 3 per week

■ MU2829 CREATIVE MUSIC WORKSHOP

Musical improvisation and composition; exploration of sound; discrimination and organisation of sound; musical communication; integration with other artistic forms; media and technology; workshop performance; style and technique.

Credit Points: 5 **Contact Hours:** 2 per week

■ MU3035 AURAL MUSICIANSHIP 1

Aural perception skills; development of vocal sight reading and performance skills; training the musical memory; solfege; dictation; aural analysis.

Credit Points: 10 **Contact Hours:** 3 per week

■ MU3036 AURAL MUSICIANSHIP 2

Continuation from work begun in MU3035; performance of music in parts; harmonic analysis; transcription of melodies by ear.

Prerequisite: MU3035

Credit Points: 10 **Contact Hours:** 2 per week

■ MU3037 AURAL MUSICIANSHIP 3

Advanced aural perception for students who wish to extend further their expertise in this field; continuation from MU3036.

Prerequisite: A grade of 5 or above in MU3036

Credit Points: 5 **Contact Hours:** 2 per week

■ MU3040 SYSTEMS OF PART WRITING 1

Writing of modal and tonal melodies; two part techniques; functional harmony and voice leading techniques; diatonic harmony.

Prerequisite: Literacy in notation, key, rhythm. Knowledge of basic chord structures and progressions

Credit Points: 10 **Contact Hours:** 2 per week

■ MU3041 SYSTEMS OF PART WRITING 2

Chromatic harmony; nineteenth and twentieth century writing techniques.

Prerequisite: MU3040

Credit Points: 10 **Contact Hours:** 2 per week

■ MU3044 MUSIC PRACTICUM

Skills, interests and aptitudes gained through experience in the course to date are directed towards a college or community activity in music. Students are provided with an opportunity to practise their art within a specific community – artistic, public or institutional.

Credit Points: 10

■ MU3046 HISTORY, LITERATURE & ANALYSIS 1

Late Renaissance and Baroque music; development of research and analysis skills; special emphasis on Fugue, Binary and Ritornello forms as found in keyboard, instrumental and vocal music of the period.

Credit Points: 10 **Contact Hours:** 3 per week

■ MU3047 HISTORY, LITERATURE & ANALYSIS 2

Music in the classical era; development of research and analytical skills; the classical sonata principle as found in the symphony, sonata, concerto and opera genres of the period.

Prerequisite: MU3046

Credit Points: 10 **Contact Hours:** 3 per week

■ MU3048 HISTORY, LITERATURE & ANALYSIS 3

Romantic and impressionist music; development of research and analytical skills; forms studied will include the lied, symphony, orchestral music, instrumental and keyboard music, and music drama.

Prerequisite: MU3047

Credit Points: 10 **Contact Hours:** 3 per week

MU3053 COMPOSITION & TECHNOLOGY 1

Principles of composition; motivic development; popular song forms; introduction to midi and computer music; sequences.

Prerequisite: Consent of lecturer

Credit Points: 10 **Contact Hours:** 3 per week

MU3054 COMPOSITION & TECHNOLOGY 2

Introduction to contrapuntal techniques, including imitation, canon, sequence; studio techniques including sound mixing, microphone techniques, sampling, editing.

Prerequisite: MU3053

Credit Points: 10 **Contact Hours:** 3 per week

MU3055 COMPOSITION & TECHNOLOGY 3

The development of fully formed short compositions using the resources of the sound studio. Music in the popular media.

Prerequisite: MU3054

Credit Points: 10 **Contact Hours:** 3 per week

MU3056 COMPOSITION & TECHNOLOGY 4

Personal composition project involving selection from a wide range of sound resources both in the studio and available from the wider community.

Prerequisite: MU3055

Credit Points: 10 **Contact Hours:** 3 per week

MU3057 MUSIC IN THE TWENTIETH CENTURY

Overview of the major styles of twentieth century music including jazz and popular music; writing techniques; individual and group generated compositions. Analysis of selected representative compositions.

Credit Points: 10 **Contact Hours:** 3 per week

MU3058 MUSIC IN CONTEMPORARY SOCIETY

A survey of the range of musical activity within society today; principles of program design; the role of the community musician; funding and grant implications for music projects in Australia today.

Credit Points: 5 **Contact Hours:** 2 per week

MU3059 KEYBOARD MUSICIANSHIP

Selected keyboard majors: practical classes in accompanying. Other students: keyboard technique; sight reading in a variety of keyboard styles; basic improvisation skills, including harmonisation of melodies.

Credit Points: 10 **Contact Hours:** 2 per week

MU3060 IMPROVISATION

Aural analysis of harmonic progressions; acquisition of a repertoire of jazz/pop standards for improvisation purposes; improvisation on chief instrument and in the ensemble situation.

Prerequisite: MU3035

Credit Points: 10 **Contact Hours:** 3 per week

MU3061 SOCIOLOGY OF POPULAR MUSIC

Understanding popular culture; relationship between popular culture and art forms; roles of the media; critical study of popular music genres.

Prerequisite: AR3005

Credit Points: 10 **Contact Hours:** 3 per week

MU3062 COMMUNITY MUSIC

Understanding the roles of the musician in the community; identification of the sources and practice of

music in the wider community; field work. Composition and performance for the layperson. (Not offered in 1991.)

Credit Points: 10 **Contact Hours:** 3 per week

MU3063 STUDIO MUSIC TEACHING

An introduction to the teaching of music in the studio; understanding child development; lesson preparation; teaching materials; survey of group methods. (Not offered in 1991.)

Credit Points: 10 **Contact Hours:** 4 per week

MU3064 GUITAR WORKSHOP

Development of basic skills in guitar performance; single-line melodies; chord progressions; song accompaniment. (Not offered in 1991.)

Credit Points: 10 **Contact Hours:** 3 per week

MU3065 PRACTICAL STUDIES A1

Development of a strong and reliable technique, interpretation and performance skills on the chief practical instrument or voice; performance seminar; participation in performance activities; recital.

Credit Points: 15 **Contact Hours:** 2 per week

MU3066 PRACTICAL STUDIES B1

Group tuition on an orchestral wind or string instrument; basic performing techniques. Directed ensemble activities including membership of wind or choral ensemble depending on chief instrument; repertoire and reading choir.

Credit Points: 15 **Contact Hours:** 6 per week

MU3067 PRACTICAL STUDIES A2

Exploration of established and new repertoire on the chief practical instrument or voice. Continued development of technique, together with the acquisition of analytical and interpretive skills; participation in performance activities; performance seminar, recital. Instrumental or vocal ensemble.

Prerequisite: MU3065

Credit Points: 15 **Contact Hours:** 2 per week

MU3068 PRACTICAL STUDIES B2

Group tuition on an orchestral wind instrument or guitar; basic performing techniques.

Prerequisite: MU3066

Credit Points: 15 **Contact Hours:** 6 per week

MU3069 PRACTICAL STUDIES A3

Consolidation and extension of studies from MU3067; performance seminar, participation in performance activities; open recitals.

Prerequisite: MU3067

Credit Points: 15 **Contact Hours:** 2 per week

MU3070 CHORAL ARRANGING & CONDUCTING

Arrangement of keyboard and diverse ensemble music for choral ensemble; harmonisations of set melodies and arrangements of same for choral ensemble; arranging for large vocal ensemble. Score preparation; conducting techniques; rehearsal procedures; development of a personal style in the direction of choral music.

Co/Prerequisite: MU3040

Credit Points: 10 **Contact Hours:** 4 per week

MU3071 INSTRUMENTAL ARRANGING & CONDUCTING

Harmonic analysis and arranging of keyboard music for instrumental ensemble; harmonisation of set melodies and arrangement of same for instrumental ensemble. Arranging for a variety of ensembles including concert band, popular music ensemble.

Preparation of instrumental scores for conducting; baton techniques; rehearsal procedures; development of a personal style in the direction of instrumental ensembles.

Co/Prerequisite: MU3040

Credit Points: 10 **Contact Hours:** 4 per week

■ MU3072 ENSEMBLE

Participation in rehearsals and concerts for one or more of the performing ensembles operating within the Department of Music at Kelvin Grove. Groups include Choir, Wind Ensemble, Stage Band, Popular Music Ensemble and a range of discrete, small, instrumental ensembles.

Credit Points: 10 **Contact Hours:** 4 per week

■ MU4033 TWENTIETH CENTURY MUSIC

Use of twentieth century rhythms through dictation, composition improvisation and performance; exploration of overtone series; understanding tone clusters, sound mass and aleatoric procedures; performance of material of twentieth century.

Credit Points: 12 **Contact Hours:** 3 per week

■ MU4034 BAROQUE & THE ROCOCO

Written and aural activities to improve musicianship; studies of Baroque and Rococo music literature, analysis, form, continuo; performance practice.

Credit Points: 12 **Contact Hours:** 3 per week

■ MU4035 CLASSICAL & ROMANTIC MUSIC

Interpret and perform work from Viennese/Romantic eras; understand musical forms and theory of these eras; compose short works.

Credit Points: 12 **Contact Hours:** 3 per week

■ NU3025 NUTRITION

Simple tools used in nutrition education: food groups and food composition tables; role of nutrients in the Australian diet; function of water in human systems; energy requirements; individual research.

Prerequisite: PL3026

Credit Points: 10 **Contact Hours:** 4 per week

■ NU3027 SOCIAL NUTRITION

Evaluation of nutritional information; psychology of food; methods of assessing nutritional status; nutritional disorders; community, remedial and nutrition education programs.

Prerequisite: NU3025

Credit Points: 8 **Contact Hours:** 4 per week

■ NU3701 NUTRITION APPRECIATION

Biochemical approach to nutrition; history and evolution of nutrition; critical evaluation of popular nutrition literature; development of a philosophy of nutrition.

Prerequisite: Home economics studies at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ OE2800 OUTDOOR PURSUITS

Outdoor recreation: philosophy behind outdoor adventure activities; the practice of minimal input skills. Bushcraft skills: practical experience in pioneering skills including navigation, construction site selection, meal preparation. Outdoor adventure activities: participation in a wide range of activities such as kayaking and initiative games.

Prerequisite: PE2823

Credit Points: 10 **Contact Hours:** 4 per week

■ PE2085 HEALTH & PHYSICAL EDUCATION

Historical background; anatomy, physiology, kinesiology; physical growth and development of children; static and dynamic posture; child health; exercise, rest and recreation; psycho-social factors; child safety; the concept of health and the philosophy and language of health education; the Primary Health Education Curriculum Guide; health behaviour and decisions; nutrition; health modules; planning of a selected health module; aims and objectives of physical education; swimming and water safety; physical skills; folk and social dance; physical education in the total curriculum.

Credit Points: 12 **Contact Hours:** 5 per week

■ PE2086 PHYSICAL EDUCATION

Historical, sociological and climatic influences on the content of physical education; rural and urban programs; teaching and coaching; educational gymnastics; track and field athletics; creative dance; curriculum development.

Prerequisite: PE2085

Credit Points: 6 **Contact Hours:** 2 per week

■ PE2701 RESOURCE TEACHING IN PHYSICAL EDUCATION

Principles involved in planning a program for years 1-7; voice control; written communication in physical education; consultation skills; individualising physical education; adaptive physical education; coaching individual sports.

Credit Points: 8 **Contact Hours:** 3 per week

■ PE2702 CONTEXTS FOR TEACHING & LEARNING

Teaching and learning in physical education; the concept of teaching; the individual learner; management and control of small and large groups in physical education; physiological and motor development.

Credit Points: 8 **Contact Hours:** 3 per week

■ PE2705 TOTAL PROGRAMMING IN PHYSICAL EDUCATION

Concept of daily physical education; movement education; organisation and administration (carnivals etc.); roles of the physical educator in total programming; outdoor education; evaluation.

Credit Points: 8 **Contact Hours:** 3 per week

■ PE2706 PHYSICAL EDUCATION & THE ARTS

Music and movement: frameworks for listening and moving; music and dance relationships; program planning. Administration of sport and recreation: the processes of administration; administrative policies; facilities; organisation of track and field and swimming meetings; organisation of school sporting events and teams; camps and leisure pursuits; budgeting; purchase and care of equipment.

Credit Points: 8 **Contact Hours:** 3 per week

■ PE2712 TEACHING GAMES & SPORTS

Skill recognition (catching, throwing, striking) development of physical skills; skill analysis and teaching; study of a selected sport; certification in coaching school sports; presentation of a coaching workshop.

Credit Points: 8 **Contact Hours:** 3 per week

■ PE2713 RESOURCE TEACHING & CONSULTANCY

Self-awareness; interpersonal relationships; communication skills; response modes; functioning as a resource teacher in physical education; the organisa-

tional and procedural roles of a physical education specialist.

Credit Points: 8 **Contact Hours:** 3 per week

■ PE2807 SOCIO-CULTURAL STUDIES OF SPORT

Bases of sociology; discipline areas in socio-cultural study of sport; lifestyle and physical activity of Neolithic era; sociocultural influences in Pre-Hellenic, Greek, Roman, Dark Ages and Medieval eras; development of sport from Renaissance to nineteenth century in England; historical development of sport in Australia; Aboriginal play and games; dance throughout history; field trip; presentations; comparative study.

Credit Points: 8 **Contact Hours:** 3 per week

■ PE2808 SPORT IN SOCIETY

Play games and sport; sport as a business; the role of the media in sports; aggression and violence in sport; children in sport; sport and social class.

Prerequisite: PE2807

Credit Points: 8 **Contact Hours:** 3 per week

■ PE2809 AQUATIC RECREATION

Planning aquatic pursuits; snorkelling and scuba diving; sailing; power boating and skiing; fishing; equipment design and maintenance.

Credit Points: 8 **Contact Hours:** 3 per week

■ PE2810 INTRODUCTORY SPORTS SCIENCE

Aerobic conditioning for sport; muscular strength, endurance and flexibility; body composition and sport; the energy systems of the body; the female athlete; the development of sporting skill.

Credit Points: 8 **Contact Hours:** 3 per week

■ PE2811 MEASUREMENT OF PHYSICAL GROWTH

Morphological considerations; assessment of biological or maturation age; postural adjustments and growth and development; nutrition and growth; critical periods in growth; secular growth trends.

Credit Points: 8 **Contact Hours:** 3 per week

■ PE2812 ADVANCED SPORTS SCIENCE

Specificity of conditioning and training techniques; sport for specific groups particularly the handicapped; sports medicine; prevention of sporting injuries; evaluation techniques used in sports science research.

Prerequisite: PE2810

Credit Points: 8 **Contact Hours:** 3 per week

■ PE2819 INTRODUCTION TO HUMAN MOVEMENT

Rhythmic experiences: range of rhythmic experiences including folk dance, singing games, rhythmic patterns with music and percussion. Games and gymnastics activities: basic skills in games and gymnastics with emphasis on improvisation in play situations. First-aid studies: theoretical and practical aspects of emergency aid including resuscitation and bandaging.

Credit Points: 5 **Contact Hours:** 3 per week

■ PE2820 DANCE FOR RECREATION

Community dance: development of basic techniques in square, round and bush dancing, latest trends in popular dance. Ballroom dance: basic figures in ballroom dancing such as cha-cha, quickstep, modern waltz. Aerobic dance: rhythmic activities for personal fitness.

Credit Points: 10 **Contact Hours:** 4 per week

■ PE2823 RHYTHMIC MOVEMENT

Folk and square dance: steps and figures of folk dances of varying complexity; emphasis on improving students' knowledge, ability to interpret dance. Creative dance: experimentation with stimuli – words and poems, percussion, music, drama; movement exploration utilising student's own ideas. Rhythmic activities: development of skill in working with music and a variety of rhythmic activities.

Credit Points: 5 **Contact Hours:** 2 per week

■ PE2824 PERSONAL HEALTH & FITNESS

Health: development of a personal health program; issues, techniques and topics of current personal and societal health concerns. Fitness: theoretical basis of physical fitness; appraisal of personal fitness; development of fitness programs; mandatory practical involvement.

Credit Points: 10 **Contact Hours:** 4 per week

■ PE2825 GYMNASTICS

Personal development incorporating components of gymnastics; progressed activities designed to promote success and challenge through artistic gymnastic skills.

Prerequisite: PE2819 or equivalent experience

Credit Points: 5 **Contact Hours:** 2 per week

■ PE2829 LEISURE EDUCATION

Leisure and recreation; leisure and the individual; leisure and society; future directions for leisure; all-of-life sport.

Credit Points: 10 **Contact Hours:** 3 per week

■ PE2830 GAMES FOR RECREATION

Development of the individual skills and techniques of the game; application of the rules and umpiring procedures. Students are expected to participate in two of the following games – Volleyball, Tennis, Squash.

Credit Points: 10 **Contact Hours:** 3 per week

■ PE3010 MOTOR DEVELOPMENT & SKILLS ACQUISITION

Identification of key terms in motor development and skill acquisition; evaluation of different classification systems; classification of skills using a variety of criteria; awareness of different stages of motor development; interpretation of performance curves; theoretical bases of information processing models; analysis of mechanisms involved in skilled performance.

Credit Points: 10 **Contact Hours:** 5 per week

■ PE3011 ANATOMY & BIOMECHANICS

Recognition of skeletal structures; differences in the structure and functions of human joints, muscle attachment; actions of muscles as related to major joints; why certain activities are anatomically harmful; mechanical principles of human movement; diagnosis of errors in technique; isolation of basic elements common to a variety of performance skills.

Credit Points: 10 **Contact Hours:** 5 per week

■ PE3012 EXERCISE PHYSIOLOGY

The structure and function of body systems; key terms and principles relating to specific aspects of systemic physiology; application of general physiological principles to conditions of work; interpretation of a variety of tests and procedures used in evaluating physique, fitness, effects of training and exercise.

Credit Points: 10 **Contact Hours:** 5 per week

■ PE3013 FOUNDATIONS OF PHYSICAL EDUCATION

Historical events which have shaped developments in contemporary physical education; demonstration of confidence and competence in the communication of philosophical and historical aspects of education and sport; appreciation of the nature and scope of human movement studies, including physical education, leisure and sport.

Credit Points: 10 **Contact Hours:** 5 per week

■ PE3014 PERFORMANCE SKILLS 1

Application of scientific principles to the analysis and development of techniques for swimming and track and field; performance of all aspects of the major swimming strokes and track and field events; instructional strategies and motivational, conditioning and training activities; development of activity programs for various ability levels; application of event rules; water rescue.

Credit Points: 10 **Contact Hours:** 6 per week

■ PE3015 PERFORMANCE SKILLS 2

Various game forms; analysis of fundamental game skills; identification of problem areas in skill developments; application of relevant skills to suit game situation; application of sport rules; application of relevant strategies for teaching and coaching selected sports for a variety of age groups.

Credit Points: 10 **Contact Hours:** 6 per week

■ PE3016 PERFORMANCE SKILLS 3

Basic theoretical principles fundamental to the performance and teaching of gymnastics and dance; physical fitness and basic biomechanical principles in the performance of excellence in gymnastics; performance of routines incorporating a variety of gymnastic and dance skills on floor/apparatus; recognition of unsafe practices.

Credit Points: 10 **Contact Hours:** 6 per week

■ PE3017 OUTDOOR EDUCATION

Appreciation of the value and place of outdoor education in schools and the community; development of proficiency in a number of outdoor pursuits; light-weight, minimum impact camping; leadership skills and safety techniques; the Australian natural environment; promotion of positive attitudes towards natural environments.

Credit Points: 10 **Contact Hours:** 6 per week

■ PE3018 RESEARCH IN MOVEMENT STUDIES

Data collection, presentation, and interpretation; test design and administration; basic computer programming and analysis; elementary research procedures and design.

Prerequisites: PE3010, PE3011 or PE3012

Credit Points: 10 **Contact Hours:** 3 per week

■ PE3019 PERFORMANCE DEVELOPMENT

How physical performance can be improved; development of skills in the young, the atypical, the disabled, the elite, and the aged; subjective and objective evaluation as performers are assessed both physically and psychologically; techniques from the sciences of exercise physiology, sport psychology, and biomechanics; coaching, teaching, program design and motivation.

Prerequisites: PE3010, PE3011 or PE3012

Credit Points: 10 **Contact Hours:** 3 per week

■ PE3020 ADMINISTRATION IN PHYSICAL EDUCATION & SPORT

Types of administration and styles of leadership practised in both physical education and sport; the various administrative tasks in both fields; personnel and program administration.

Credit Points: 10 **Contact Hours:** 3 per week

■ PE3021 SOCIOLOGY OF SPORT & LEISURE

How sport affects individuals, the local community, and society in general; sport and leisure from a sociological standpoint; commercialism; politics in sport; changing habits in leisure; expansion of individual activities; increased interest in hazardous and life-threatening activities.

Prerequisite: PE3013

Credit Points: 10 **Contact Hours:** 3 per week

■ PE3022 ADAPTED PHYSICAL EDUCATION

The causes of short-term and long-term disorders and disabilities from medical and developmental perspectives; procedures for assessing the range of movement and current level of skills; individualised program planning for most disability groups.

Prerequisite: PE3010

Credit Points: 10 **Contact Hours:** 3 per week

■ PE3023 SPORT & FITNESS MANAGEMENT

Practical procedures and laboratory work; testing and evaluating; exercise prescription; design and development of conditioning programs.

Prerequisite: PE3012

Credit Points: 10 **Contact Hours:** 3 per week

■ PE3024 ADVANCED SKILL LABORATORIES

Investigation of an advanced theoretical structure and application to a performance activity of their choice.

Prerequisites: PE3010 and a Performance Skill subject from Group B

Credit Points: 10 **Contact Hours:** 3 per week

■ PE3025 INDEPENDENT STUDY

Students are required, with guidance, to propose, carry out, and report on some achievable enquiry which may take a variety of forms, from a specialised development of previously undertaken subjects to a supplementary option chosen to expand the scope of their studies in human performance and physical education.

Prerequisites: Compulsory Level 1 subjects and PE3018

Credit Points: 10 **Contact Hours:** 3 per week

■ PE3026 HUMAN PERFORMANCE ANALYSIS

Various methods of conducting performance analysis; deductive and inductive approaches to analysis; analysis of selected activities using observation techniques, video tapes of performance, sequential photographs, film.

Prerequisites: All Level 1 subjects and PE3018

Credit Points: 10 **Contact Hours:** 3 per week

■ PE3027 TRENDS & ISSUES IN SPORT SCIENCE

Current trends in the sport sciences; critical interpretation of the information yielded; best approaches to handling of the totality of the sport scene.

Prerequisites: Compulsory Level 1 subjects and PE3018

Credit Points: 10 **Contact Hours:** 3 per week

■ **PE3032 PHYSICAL EDUCATION CURRICULUM: SECONDARY**

Curriculum development in physical education in Australia; curriculum models for secondary school physical education; factors influencing future physical education curriculum development; planning and designing a secondary physical education curriculum; curriculum evaluation.

Prerequisite: CU3040 or equivalent; physical education curriculum studies at Diploma of Teaching level
Credit Points: 12 **Contact Hours:** 3 per week

■ **PE3033 PHYSICAL EDUCATION CURRICULUM: PRIMARY**

Philosophical background; growth characteristics of the primary school child with particular reference to their implications for physical education; orientation of physical education into the primary school program; structuring the learning environment.

Prerequisite: CU3040 or equivalent
Credit Points: 12 **Contact Hours:** 3 per week

■ **PE3704 MOTOR DEVELOPMENT & LEARNING**

The role of reflexes and early voluntary movements in the development of the child; fundamental patterns of movement (walking, running, jumping, throwing, catching) and their sequential development; development of prehension and manipulation; theories of motor learning; evaluation of perceptual-motor, sensory-motor and psycho-motor theories.

Prerequisite: Studies in physical education at Diploma of Teaching level
Credit Points: 12 **Contact Hours:** 3 per week

■ **PE3801 SOCIOLOGY OF SPORT**

Conceptual framework; overview of historical and contemporary perspectives; sport and the socio-cultural system; politics in sport; racial discrimination; the role of international sport; education, leisure, entertainment and sport; commercial interests; outline of a program for schools.

Credit Points: 12 **Contact Hours:** 3 per week

■ **PG2800 PHOTOGRAPHY AS AN ART FORM**

Exploration of the art potential of the camera and darkroom techniques; the photograph as art: creation of art works, composition, expressive design, manipulation of the image; the beginnings and growth of photography and its emergence as an art form; works of eminent photographers.

Credit Points: 5 **Contact Hours:** 2 per week

■ **PG2801 PHOTOGRAPHY**

How to take photographs using a 35mm SLR camera; darkroom printing work; analysis of the meanings contained in photographs and how these meanings are generated.

Credit Points: 5 **Contact Hours:** 3 per week

■ **PG2802 PHOTOGRAPHY 1**

Operation of a camera; construction of a pin-hole camera; loading and developing film; darkroom techniques; photography in natural light; experience with different lenses; critical analysis of photographs; arrangement of a series of photographs to communicate an event, feeling of thematic statement; presentation of material for display.

Credit Points: 8 **Contact Hours:** 3 per week

■ **PG2803 PHOTOGRAPHY 2**

Technical problems (exposure control, lighting and processing); studio lighting; studio figure studies;

auto portrait; consideration of the works of established photographers; project.

Prerequisite: PG2802

Credit Points: 8 **Contact Hours:** 3 per week

■ **PG2804 PHOTOGRAPHY PRODUCTION & ANALYSIS**

Operation of a 35mm SLR camera; taking and composing photographs; basic darkroom procedures; analysing photographic images.

Credit Points: 5 **Contact Hours:** 2 per week

■ **PG4004 PHOTOGRAPHIC MEDIA 1**

Photographic processes; aesthetic aspects of photography; history of art and photography; personal approaches to photography.

Credit Points: 12 **Contact Hours:** 3 per week

■ **PG4005 PHOTOGRAPHIC MEDIA 2**

Continuation of PG4004. Photographic techniques; innovative approaches to photography; history of photography; personal approaches to photography.

Credit Points: 10 **Contact Hours:** 3 per week

■ **PG4006 PHOTOGRAPHY IN EDUCATION**

Use of black-and-white photographs in educational situations; production of black-and-white photographs for teaching and learning; requirements for setting up a photography program in a school; evaluation criteria and design of slide/tape programs for educational situations; application of this knowledge to planning a photography program in a school.

Credit Points: 9

■ **PH3005 PHYSICS FUNDAMENTALS 1A**

Kinematics; dynamics; fluids; kinetic theory.

Co-requisite: PH3006

Credit Points: 10 **Contact Hours:** 4 per week

■ **PH3006 PHYSICS FUNDAMENTALS 1B**

Force; electrical energy; current electricity; electromagnetism; AC circuits; basic electronics; vibrations and waves.

Co-requisite: PH3005

Credit Points: 10 **Contact Hours:** 4 per week

■ **PH3007 ATOMIC & NUCLEAR PHYSICS**

Introduction to modern physics; physical principles including: the relativity principle; the quantum principle; the Pauli exclusion principle; the conservation of matter principle; nuclear forces; the search for additional principles.

Prerequisites: PH3005 and PH3006

Credit Points: 10 **Contact Hours:** 4 per week

■ **PH3008 ELECTRONICS**

The physics of active devices, operational amplifiers and oscillators; analog measurement, pulse circuits and digital electronics.

Prerequisites: PH3005 and PH3006

Credit Points: 10 **Contact Hours:** 4 per week

■ **PH3026 INTRODUCTION TO PHYSICS**

Introduction to the major areas of physics and their relevance to the development of equipment and appliances utilised by the consumer.

Credit Points: 9 **Contact Hours:** 4 per week

■ **PI3000 PHILOSOPHY & THE CLASSROOM**

Recent developments in philosophy and philosophy education; understanding the relationship between theory and practice; application of this philosophy to understand classroom problems, eg, teaching/learn-

ing, discipline, equality, academic freedom, classroom texts and utterance.

Prerequisites: SY3013 and SY3014

Credit Points: 10 **Contact Hours:** 2 per week

■ PI3003 PHILOSOPHY OF SCIENCE

Definitions of science and scientific knowledge; the interlinking of science and politics; technology in modern society; the contributions of Popper, Kuhn, Feyerabend, Kalatos, Koyre, Bergson and Bachelard; implications for teaching science.

Prerequisites: SY3013 and SY3014

Credit Points: 10 **Contact Hours:** 2 per week

■ PI3303 PHILOSOPHICAL PERSPECTIVES ON EDUCATION

Recent developments in philosophy of education; education and schooling in contemporary society; fairness and quality in education; education in a post-industrial society; development of a personalised philosophy of education.

Co/Prerequisite: ED3303 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ PI3304 PHILOSOPHY IN THE CLASSROOM

Current developments in moral philosophy as they relate to classroom practice; philosophical bases of learning theories; curriculum and knowledge; justice and fairness in the classroom.

Co/Prerequisite: ED3303 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ PI3305 PHILOSOPHY OF EDUCATION

Meaning, purpose and function of philosophy; philosophy of education; the continuing education debate; the concept of knowledge; traditional and progressive education; confronting the future in a changing society; development of a personal philosophy of education.

Credit Points: 12 **Contact Hours:** 3 per week

■ PI3802 REFORM & INNOVATION IN EDUCATION

The early educational innovators; the concept of free schooling; the neo-libertarian and anarchist tradition; the concept of education for liberation; deschooling; alternative schooling; socialist models of education.

Prerequisite: Relevant studies at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ PI3803 CONTEMPORARY MORAL PROBLEMS

Central issues in applied ethical and moral philosophy: uses of technology, genetic engineering, nuclear energy, overpopulation, environmentalism, war, terrorism, civil disobedience, pacifism, racism, sexism, abortion, euthanasia, suicide, sexuality.

Prerequisite: Relevant studies at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ PL3026 HUMAN PHYSIOLOGY

The basic structure and function of human body systems; the chemical structure of food components and their role in the body; roles of nutrients within the human body systems; nutrients and maintenance of good health.

Prerequisite: BC3026

Credit Points: 9 **Contact Hours:** 4 per week

■ PO2800 CONTEMPORARY POLITICAL ISSUES

Introduction to political theory and concepts; the first Cold War 1947-1961; politics of confrontation 1961-1975; politics of Detente 1975-1980; the new Cold War 1980-1983; future developments. Incompatible with PO2007.

Credit Points: 5 **Contact Hours:** 2 per week

■ PT2911 PRACTICE TEACHING

Orientation to the primary school; planning, implementation and lesson closure; observations; program of other activities (group sessions and discussions).

Credit Points: 10

■ PT2912 PRACTICE TEACHING

See PT2911.

Credit Points: 10

■ PT2913 PRACTICE TEACHING

Planning, implementation and evaluation of units; observations; program of other activities (group sessions and discussions).

Credit Points: 10

■ PT2914 PRACTICE TEACHING

See PT2913.

Credit Points: 10

■ PT2915 PRACTICE TEACHING

Planning, implementation and evaluation of subjects and total programs of work; observations; program of other activities (group sessions and discussions).

Credit Points: 10

■ PT2916 PRACTICE TEACHING

See PT2915.

Credit Points: 10

■ PT2917 PRACTICE TEACHING: EARLY CHILDHOOD

Five continuous days in a pre-school/kindergarten and five continuous days in a lower primary school; guided observation of child learning and behaviours, and of the teacher's role; interacting and communicating with children, staff and parents in selected areas of the program; assisting with the preparation and organisation of indoor and outdoor learning environments.

Credit Points: 5

■ PT2918 PRACTICE TEACHING: PRE-SCHOOL 1

Five single days and five continuous days in kindergartens/pre-schools observing and recording individual child behaviours and selected aspects of the teaching learning environment; planning teaching and evaluating experiences with individual children and small groups; participating in selected areas of the program with staff, parents and children; preparing and introducing materials into indoor and outdoor environments.

Prerequisite: PT2917

Credit Points: 5

■ PT2919 PRACTICE TEACHING: PRE-SCHOOL 2

Five single days and fifteen continuous days in kindergartens/pre-schools observing and recording the behaviour and learning of small groups of children and selected aspects of the teaching/learning environment; planning, teaching and evaluating an increasing number of learning experiences, for small groups in

selected areas of the program, and for the total group in one area.

Prerequisite: PT2918

Credit Points: 10

■ PT2920 PRACTICE TEACHING: SCHOOL 1

Five single days and fifteen continuous days in lower primary schools observing and recording child and teacher behaviours, classroom and school environments; planning, teaching and evaluating experiences, with increasing responsibility for individuals, small groups and the class group; assuming responsibility for the total program for two days.

Prerequisite: PT2919

Credit Points: 10

■ PT2921 PRACTICE TEACHING: SCHOOL 2

Twenty continuous days in lower primary schools observing and recording child and teacher behaviours, classroom and school environments, parent involvement, role of ancillary staff and administrative procedures; planning, teaching and evaluating experiences with increasing responsibility for individuals, small groups and the class group for longer periods of time; assuming responsibility for the total program for eight days.

Prerequisite: PT2920

Credit Points: 15

■ PT2922 PRACTICE TEACHING: PRE-SCHOOL 3

Twenty continuous days in kindergarten/pre-schools observing children and the teaching learning environment; planning, implementing and evaluating a comprehensive curriculum, culminating in a continuous control period of at least one week; communicating with children, parents and colleagues; utilising organisational and administrative skills in the assumption of responsibility for the total pre-school or kindergarten program.

Prerequisite: PT2921

Credit Points: 15

■ PT2947 PROGRAMS FOR YOUNG CHILDREN 0-12 YEARS

The equivalent of five continuous days in each of two services, centre-based day care, family day care, out-of-school-hours care, hospital or work-related care; guided observations of individual children's behaviour and learning, and of the service-providers role; interacting and communicating with children, staff and where possible, parents; assisting with the preparation, organisation and implementation of selected learning opportunities; evaluation of processes and practices.

Credit Points: 5

■ PT2948 PROGRAMS FOR INFANTS & TODDLERS 0-3 YEARS

Ten continuous days participating in a group care setting for infants and toddlers; observing and recording individual children's behaviour and learning; planning, implementing and evaluating learning opportunities for individuals which foster communication and exploration; responding to family contexts and child rearing practices; practising and adopting rigorous health and safety standards appropriate for infants and toddlers in group care settings.

Prerequisite: PT2947

Credit Points: 5

■ PT2949 PROGRAMS FOR CHILDREN 0-3 YEARS

Twenty continuous days in a group care setting for infants and toddlers; observing, recording and analysing the behaviour and learning of individual children and selected aspects of the teaching/caring/learning environment; planning, implementing and evaluating learning opportunities for individuals and where appropriate, small groups, which foster communication, exploration and problem solving and which take into account social and cultural contexts; adopting and promoting sound health and safety practice.

Prerequisite: PT2948

Credit Points: 10

■ PT2950 PROGRAMS FOR CHILDREN 3-5 YEARS

Twenty continuous days in a group care setting for children 3-5 years observing, recording and analysing the behaviour and learning of individuals and groups of children; recording and evaluating selected aspects of the teaching/caring/learning environment; planning, implementing and evaluating learning opportunities for individuals and groups which foster communication, exploration and problem solving, creativity and self-expression and which take into account social and cultural backgrounds, and health and safety practices appropriate for 3-5-year-old children in group care; assuming limited leadership responsibilities for the total program.

Prerequisite: PT2949

Credit Points: 10

■ PT2951 FIELD PROJECT (CHILDREN 0-5 YEARS)

Twenty continuous days (Internal Mode) and fifteen continuous days (External Mode) in a group care setting for children birth to five years observing, recording and analysing the behaviour and learning of individuals and groups of children; recording and evaluating selected aspects of the teaching/caring/learning environment; planning, implementing and evaluating learning opportunities for individuals and groups; developing a specific management program for an individual or small group of children based on a series of observations taken prior to the placement; implementing and evaluating the management of the program in the context of the whole group plan; assuming specific leadership responsibilities for the total program for a selected period.

Credit Points: 15

■ PT2952 ELECTIVE PROGRAMS (CHILDREN 0-12 YEARS)

Twenty continuous days (Internal Mode) and fifteen continuous days (External Mode) in a selected service, centre-based long day care, family day care, out-of-school-hours care, occasional care, work-related child care, observing, recording and analysing aspects of children's behaviour and learning and the teaching/caring/learning environment; planning, implementing and evaluating a comprehensive curriculum which takes into account a selected social, political and/or curriculum issue which was previously researched and relevant to the selected service; communicating with children, parents, colleagues and the wider community; utilising organisational and administrative skills in the assumption of responsibility for the total program for an extended period; recording and analysing operational details of the service, the interaction and interrelated-

ness of components of the service, its management and structure.

Credit Points: 15

■ **PT3001 INTEGRATED FIELD STUDIES 1A**

Two weeks of school experience aimed at promoting the understanding of the roles of teachers and pupils in interactive school communities, followed at a later stage by six weeks of teaching experience in a Curriculum A subject area. In this section, students apply their studies to the planning, implementation and evaluation of short sequences of classroom activities and lessons. Emphasis is upon developing confidence and competence in basic teaching strategies and interpersonal and professional relationships.

Credit Points: 20

■ **PT3002 INTEGRATED FIELD STUDIES 1B**

This subject has identical purposes and the same duration and timing of school and teaching experience as PT3001, Integrated Field Studies 1A. However, it focuses on teaching experiences in a Curriculum B subject area.

Credit Points: 20

■ **PT3003 INTEGRATED FIELD STUDIES 2A**

Two weeks of school experience in which students identify and record the range of beginning year procedures that set in place pupils' learning expectations for the new school year; to be followed later in the course by six weeks of teaching experience. This aims at preparing students for beginning teaching in their Curriculum A area. Students will assume responsibility for effectively teaching their 'own' classes, employing appropriate planning, researching, managing, collegial and teaming skills needed in the interactive classroom and in the wider school community.

Credit Points: 25

■ **PT3004 INTEGRATED FIELD STUDIES 2B**

This subject is identical with PT3003 in terms of purposes, and the timing and duration of its school and teaching experiences; there is the proviso that teaching activities are carried out in a Curriculum B subject areas.

Credit Points: 20

■ **PT4900 PRACTICE TEACHING 1**

Orientation to the primary school; planning, implementation and lesson closure; planning, implementation and evaluation of subjects; observation; other activities including group talks and discussions.

Credit Points: 12

■ **PT4901 PRACTICE TEACHING 2**

Planning, implementation and evaluation of subjects and total programs of work; observation; other activities including group talks and discussions.

Credit Points: 12

■ **PT4916 PRACTICE TEACHING 1**

Orientation to the primary school; supervised completion of learning tasks with individuals and small groups; planning implementation and evaluation of single-faceted learning activities; class lesson and module planning in conjunction with the class teacher; compilation of a series of written observations of class and school procedures.

Credit Points: 10

■ **PT4917 PRACTICE TEACHING 2**

Orientation to the special education unit or support program; supervised completion of learning tasks

with individuals and small groups; planning, implementation and evaluation of single-faceted learning activities; class lesson and module planning in conjunction with the class teacher; compilation of a series of written observations of class and school procedures.

Credit Points: 10

■ **PT4918 PRACTICE TEACHING 3**

See PT4917.

Credit Points: 10

■ **PT4921 PRACTICE TEACHING 1**

Participation in two early childhood settings for 20 days (10 days in each setting). Emphasis on observation, planning, implementing, evaluating and record-keeping.

Credit Points: 8

■ **PT4922 PRACTICE TEACHING 2**

Participation in two childhood settings for 20 days (15 days in each setting). Emphasis on observation, planning, implementing, evaluating, administration, parent programs and record-keeping.

Prerequisite: PT4921

Credit Points: 8

■ **PY2800 BECOMING AN EFFECTIVE PERSON**

The differing perceptions people have of the sources of control over their lives; how behaviour appears to be dependent upon perceptions of control; valuation of training schemes which are designed to enable people to control their own lives.

Credit Points: 5 Contact Hours: 2 per week

■ **PY2801 INTERPERSONAL PROBLEM SOLVING**

The causes and nature of interpersonal problems; approaches and skills applicable to the resolution of these problems; self-management approaches; analysis and evaluation of the processes used.

Credit Points: 5 Contact Hours: 2 per week

■ **PY2808 INTERPERSONAL PSYCHOLOGY**

Interpersonal perception; the psychology of impression-formation; self-esteem; the significance of empathy; interpersonal attraction; the sources of interpersonal influence; interpersonal relationships; verbal and non-verbal communication; assertiveness.

Credit Points: 8 Contact Hours: 3 per week

■ **PY2811 PERSONAL DEVELOPMENT IN CREATIVITY**

Developing an awareness of creativity; manifestations of creativity in lifestyles, personality traits, ways of viewing the world; interaction with other people, 'becoming' rather than 'being'; development of a 'fulfilled' life.

Credit Points: 8 Contact Hours: 3 per week

■ **PY2812 SEXUALITY & PERSONAL RELATIONS**

Physical and psychological development; attitudes and beliefs about sex; sexual expression; sexuality in childhood and adolescence; sex roles; contraception; sexually transmitted diseases; sexuality, disability and illness; sexual abuse of children; sexual problems; pregnancy; abortion; sex education in schools.

Credit Points: 10 Contact Hours: 3 per week

■ **PY2813 INTIMACY & ALIENATION**

Access to intimacy as an essential component in personal development; characteristics and components of intimacy and alienation; changes in intimacy/isola-

tion, loneliness through the lifecycle; relationships between intimacy/alienation and other key concepts; operationalising the expression of intimacy, warmth and rejection; causes and effects of loneliness and isolation; measuring intimacy and developing skills in its expression; the 'future' of love, sexuality and intimacy; enrichment program.

Credit Points: 10 **Contact Hours:** 3 per week

■ PY3016 INTERPERSONAL PSYCHOLOGY 1

The 'inductive' learning approach; models of interpersonal communication and perception; the concept of 'self' and self-esteem; dealing with emotions – defensiveness vs openness; communication skills: attending, responding, interviewing and influencing skills; non-verbal communication; attitudes and clarification; stress and burnout; an assertive life style.

Credit Points: 10 **Contact Hours:** 3 per week

■ PY3017 INTERPERSONAL PSYCHOLOGY 2

Social influence factors; interpersonal influence: power, authority, control, personal styles; attitude change and persuasion; interpersonal conflict; the interpersonal influencing skills: confrontation, self-disclosure, feedback, assertion, reframing, problem solving, decision making and planning; gender roles and sexuality; social support systems; stress and burnout.

Prerequisite: PY3016

Credit Points: 10 **Contact Hours:** 3 per week

■ PY3033 PERSONAL & INTERPERSONAL CHANGE

Construction of identity, self, self-concept, self-esteem, and self-development; understanding and using a wide range of personal and interpersonal change methods, theories and approaches, together with relevant research data.

Credit Points: 10 **Contact Hours:** 3 per week

■ PY3034 INTERPERSONAL & GROUP PROCESSES

Understanding relationships and small group dynamics with emphasis on skill development in listening, helpful responding, assertion, conflict resolution, disclosures, feedback; models of groups development and roles lead to facilitation and leadership skills. Skills are applied and analysed outside the class group.

Credit Points: 10 **Contact Hours:** 3 per week

■ PY3035 HUMAN SEXUALITY

Sexuality; model strategies for dealing appropriately with sensitive, value laden issues; personal comfort in discussion of sexual matters; aspects of sexuality relevant to the students' own development; the sexual development of adolescents; issues of social concern such as the sexual abuse of children.

Prerequisite: PY3033

Credit Points: 10 **Contact Hours:** 3 per week

■ PY3046 HUMAN RELATIONSHIPS: A SOCIOLOGICAL PERSPECTIVE

The significance of social context to human relationships; the impact of social and demographic change on families and communities; the implications of such changes for interpersonal relationships; society and human relationships in contemporary and historical settings.

Credit Points: 10 **Contact Hours:** 3 per week

■ PY3048 SOCIAL PSYCHOLOGY

General study of social psychology and its relevance to the work and role of home economist; theory and

research of group dynamics and related concepts; analysing small group development.

Prerequisite: SS3025

Credit Points: 9 **Contact Hours:** 4 per week

■ PY3049 INTERPERSONAL RELATIONS

Overview of concepts related to interpersonal relationships; interpersonal communication; the emotions and their effect on communication; facilitating communication; self-concept; interpersonal attraction; competition, cooperation and mistrust; interpersonal influence; human relationship skills.

Prerequisite: PY3048

Credit Points: 8 **Contact Hours:** 4 per week

■ PY3050 DEVELOPMENTAL PSYCHOLOGY

The themes of cognitive, physical and socio-emotional growth in recurring sequences through life's major phases: infancy, toddlerhood and early childhood, middle childhood; adolescent phase; adulthood; old age and the end of life span.

Prerequisite: SS3025

Credit Points: 8 **Contact Hours:** 3 per week

■ PY3051 SOCIO ETHICS & HUMAN RELATIONSHIPS

Philosophical and pedagogical issues underpinning the human relationships dimension of classroom practice and school cultures (eg, concept of personhood, the nature of love, power, desire, human rights); consideration of the socio-cultural factors and changes which are generating moral dilemmas in contemporary society; case studies of moral issues and moral decision making; the ethics of teaching controversial issues and matters such as indoctrination and censorship – all in the context of the possibilities of Human Relationships Education, within the Queensland education system.

Credit Points: 10 **Contact Hours:** 3 per week

■ PY3052 COUNSELLING PSYCHOLOGY

Personal effectiveness in satisfying needs and wants; becoming an effective facilitator of 'help' to others.

Credit Points: 10 **Contact Hours:** 3 per week

■ PY3053 ADOLESCENT DEVELOPMENT & HUMAN RELATIONSHIPS

Adolescence and the search for identity; social, physical, cognitive and moral development; overview of human relationships; self-concept and self-awareness; interpersonal relationships; group processes; and educational applications of interpersonal psychology.

Credit Points: 10 **Contact Hours:** 3 per week

■ PY3054 PSYCHOLOGY OF LEARNING & TEACHING

Approaches to learning as well as factors that influence effective teaching and learning – motivation, classroom management, learning styles, individual differences, teaching effectiveness, as these issues apply to the full range of learners, including those with special needs.

Credit Points: 10 **Contact Hours:** 3 per week

■ PY3055 CONTEMPORARY ISSUES IN ADOLESCENCE

The search for identity; variations in adolescent physical and physiological development; socialising influences on the adolescent; vocational choice in a changing world; adolescents and drugs; troubled adolescents; emerging issues in adolescence.

Credit Points: 10 **Contact Hours:** 3 per week

■ PY3056 ADVANCED CLASSROOM MANAGEMENT & DISCIPLINE

Teaching for need gratification; special motivational needs of students from disadvantaged backgrounds and methods for attacking the associated issues; maintaining classroom control; theoretical constructs for decision making.

Credit Points: 10 Contact Hours: 3 per week

■ PY3057 GIFTED CHILDREN IN REGULAR SCHOOLS

Conceptions of giftedness particularly the definition suggested by Renzulli identifying the gifted and talented; traditional and innovative schemes for catering for gifted and talented children within the regular school; adapting teaching styles and curriculum content to meet the needs of gifted and talented children in the regular classroom.

Credit Points: 10 Contact Hours: 3 per week

■ PY3058 HELPING STUDENTS WITH LEARNING PROBLEMS

Correlates of low achievement in the secondary school (biological, psychological, environmental), identification of slow learners and students with learning disabilities; collection, interpretation and reporting of data; teaching strategies for learning-disabled and slow-learning children; evaluation of teaching/learning strategies.

Credit Points: 10 Contact Hours: 3 per week

■ PY3059 INNOVATIVE TEACHING METHODS

Definition of innovation; review of literature on innovative teaching methods; school/classroom organisation as a framework from which innovative approaches may grow; small group process; application of small group process to a range of curriculum areas; school-based practicum.

Credit Points: 10 Contact Hours: 3 per week

■ PY3060 THE TEACHER AS COUNSELLOR

The nature of counselling; theories of counselling; listening and relationship-building skills; goal-setting and action skills; critical evaluation of counselling; community resources.

Credit Points: 10 Contact Hours: 3 per week

■ PY3304 APPLIED STRATEGIES IN CLASSROOM LEARNING

Contemporary theoretical approaches to human development and learning; dimensions of learning (cognitive, affective, psychomotor); correlates of learning; developing teaching/learning strategies; gathering and interpreting information; consideration of a range of advanced teaching/learning strategies; development and implementation of a specific program.

Co/Prerequisite: ED3303 or equivalent

Credit Points: 12 Contact Hours: 3 per week

■ PY3305 HUMAN DEVELOPMENT & LEARNING

Human development: cognitive, affective and psychomotor development; classroom management and interactions; learning and problem solving, educational evaluation. Teaching atypical children; the needs of atypical children, special teaching procedures, referral agencies.

Credit Points: 12 Contact Hours: 3 per week

■ PY3306 INTERPERSONAL PSYCHOLOGY IN EDUCATION

Historical development and major principles of interpersonal psychology; concepts related to the formation and development of interpersonal relation-

ships; particular concepts and their application to education; interpersonal relationships with exceptional students; emotionality; models of affective teaching; self-concept; small group development; applications of interpersonal psychology. Study school for external students strongly recommended.

Co/Prerequisite: ED3303 or equivalent

Credit Points: 12 Contact Hours: 3 per week

■ PY3603 CREATIVITY IN PROBLEM SOLVING

Definition of creativity; history of creativity; theories of creativity; principle features of the creative process; the creative personality; creativity and intelligence; creativity and curriculum; altered states of awareness.

Prerequisite: Relevant studies at Diploma of Teaching level

Credit Points: 12 Contact Hours: 3 per week

■ PY3604 INNOVATIVE TEACHING METHODS

Factors which affect the selection and use of interactive teaching strategies; review of research findings on small-group dynamics in educational settings; classroom organisation to enhance learning.

Prerequisite: Must be currently teaching

Credit Points: 12 Contact Hours: 3 per week

■ PY3703 HUMAN SEXUALITY

Physical and psychological development; attitudes and beliefs about sex; sexual expression; sexuality in childhood and adolescence; sex roles; contraception; sexually transmitted diseases; sexuality, disability and illness; sexual abuse of children; sexual problems; pregnancy; abortion; sex education in schools.

Prerequisite: Studies in developmental psychology at Diploma of Teaching level

Credit Points: 12 Contact Hours: 3 per week

■ PY4030 LEARNERS WITH SPECIAL NEEDS

Special educational needs of school (P-12) and TAFE College learners arising from cognitive, behavioural and socio-cultural differences; diagnosing student functioning in cognitive, social-emotional, self-help and motor skill areas; developing teaching strategies suited to student learning styles; techniques of formative and summative assessment appropriate to student learning needs; mixed 'ability' teaching.

Credit Points: 10 Contact Hours: 3 per week

■ PY4032 DEVELOPING RELATIONSHIPS & GROUPS

Overview of concepts relating to a model of interpersonal relationships; study of some human relationships concepts such as verbal and non-verbal interpersonal communication, power, influence, authority/control, trust and mistrust, confrontation and constructive resolution of conflict; interviewing and consulting skills; self-concept studies; small group dynamics; student and teacher stress; assertion-related theory and skills; resource teacher as change agent.

Credit Points: 10 Contact Hours: 4 per week

■ PY4036 REMEDIATING LITERACY DIFFICULTIES

Review of significant learning difficulties among learners in schools (Years 1-12) and post secondary education; foundation studies in language and learning; assessment and monitoring of literacy-related curriculum tasks; test interpretation and development; related approaches to teaching, informed by principles derived from psycholinguistics, metacognition

and process approaches to literacy; service delivery based on an adjunct model.

Credit Points: 10 **Contact Hours:** 3 per week

**■ PY4037 RESOURCE TEACHING
FIELDWORK 1**

Students participate in colloquia on resource/support teaching and undertake school- or college-based projects related to other subjects studied in the first half of the course; observe and report on classroom teacher and students on a particular resource teaching project; demonstrate a range of personal and professional attributes necessary for successful resource/support teaching.

Credit Points: 8 **Contact Hours:** 2 per week

**■ PY4038 STUDY SKILLS, LITERACY &
LEARNING**

Review of significant learning difficulties among learners in schools (Years 4-12) and post secondary education in the areas of language/learning demands of the curriculum, functions of language and foundations studies of language and learning leading to detailed study of composing and comprehending tasks as they relate to curriculum demands; recent language/learning research, genre theory; study skills development and organisation; test-wisness, notetaking, organisation, managing examination stress; service delivery based on an adjunct model.

Credit Points: 10 **Contact Hours:** 3 per week

**■ PY4039 RESOURCE TEACHING
FIELDWORK 2**

Students participate in colloquia on resource/support teaching and undertake school- or University-based projects related to other subjects studied in the second half of the course; observe and report on curriculum and socio-cultural influences in schools/colleges; work with classroom teacher and students on a study skills, language and learning project; demonstrate a range of advanced personal and professional attributes necessary for successful resource/support teaching.

Prerequisite: PY4037

Credit Points: 10 **Contact Hours:** 3 per week

**■ PY4040 RESEARCH METHODS IN
RESOURCE TEACHING**

Introduction to research quantitative and qualitative research methodologies; literature reviews; gaining access to research sites; data collection and analysis; ethical issues in research; reporting research; completion of minor research task or preparation of masters research proposal.

Credit Points: 10 **Contact Hours:** 3 per week

**■ PY4041 INDEPENDENT STUDY IN
RESOURCE TEACHING**

Action research, literature reviews or special project development on a topic arising from resource/support teaching; designing appropriate investigative strategies; implementation of investigation; producing and presenting final report using computer and various audiovisual formats as required.

Credit Points: 10 **Contact Hours:** 3 per week

**■ PY4045 SOCIO-CULTURAL CONTEXTS
OF HUMAN RELATIONSHIPS**

Poverty; marriage and partnerships; divorce and separation; family violence; disability.

Credit Points: 12 **Contact Hours:** 3 per week

**■ PY4046 HUMAN SEXUALITY &
RELATIONSHIPS**

Sexual behaviour and the life cycle; sexual health and reproduction; sex and society.

Credit Points: 12 **Contact Hours:** 3 per week

**■ PY4047 INTERPERSONAL
RELATIONSHIPS**

Models of interpersonal relationship and social change; interpersonal influencing skills; counselling and the 'helping relationship'; attitudes and values; group facilitation and development; professional communication.

Credit Points: 12 **Contact Hours:** 3 per week

**■ PY4048 INTERPERSONAL & SMALL
GROUP TEACHING STRATEGIES**

The value of cooperative learning; cooperative learning and interpersonal skills; the role of the teacher; classroom organisation; cooperative strategies and educational objectives; investigation and review of small group and interactive teaching strategies; developing research and testing theory.

Credit Points: 12 **Contact Hours:** 3 per week

**■ PY4049 ETHICS & HUMAN
RELATIONSHIPS EDUCATION**

Philosophical approaches to human relationships; moral philosophy and education; development of an integrated and clearly articulated agreement for a philosophy of human relationship education.

Credit Points: 12 **Contact Hours:** 3 per week

**■ PY4050 HUMAN RELATIONSHIPS
THROUGHOUT THE LIFE SPAN**

The developmental processes; issues in human development across the lifespan; developmental theory and research; development of human relations; aspects of development (physical, cognitive, social-emotional); the socio-cultural context of development.

Credit Points: 12 **Contact Hours:** 3 per week

**■ PY4052 RESOURCE TEACHING
FIELDWORK 1A**

See PY4037.

Credit Points: 4

**■ PY4053 RESOURCE TEACHING
FIELDWORK 1B**

See PY4037.

Credit Points: 4

■ PY4054 RESOURCE TEACHING 2A

See PY4039.

Credit Points: 4

■ PY4055 RESOURCE TEACHING 2B

See PY4039.

Credit Points: 4

**■ RE3704 TRENDS IN THE TEACHING OF
READING**

Theoretical models of the reading process; implications for development of school policy and for class reading programs; analysis of a range of text; the reader; development of a class reading program.

Prerequisite: Studies in the teaching of reading at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

**■ RE3705 PSYCHOLOGY OF READING
DISABILITY**

Investigation of reading and spelling disability; an overview of assessment and remedial procedures; an examination of the consequences of this phenomenon.

Credit Points: 12 **Contact Hours:** 3 per week

■ RE3706 LEARNING TO LEARN THROUGH READING

The reading process; comparison of the reading processes of efficient and inefficient readers; analysis of texts to determine how information is structured and presented; evaluation of a variety of strategies which may be used to teach content and information processing simultaneously; implications of reading-to-learn activities for school programs.

Credit Points: 12 **Contact Hours:** 3 per week

■ RP1025 WORKPLACE EXPERIENCE

Use of skills obtained in the first three terms in the on-the-job context of the Industrial Commission, court and parliament; non-defensive communication; conflict resolution; relationship contracting and role negotiation.

Prerequisite: RP1028

Credit Points: 12 **Contact Hours:** 6 per week

■ RP1026 REPORTING 1

Introduction to the theory and application of stenograph computer compatible theory (machine shorthand).

Credit Points: 24 **Contact Hours:** 10 per week

■ RP1027 REPORTING 2

Consolidation and reinforcement of theory acquired in RP1026 with emphasis on speed development; introduction to court procedures and basic legal, medical and technical terminology.

Prerequisite: RP1026

Credit Points: 36 **Contact Hours:** 14 per week

■ RP1028 REPORTING 3

Further emphasis on speed development and familiarity with specialist vocabularies; introduction to court etiquette and court reporting practices.

Prerequisite: RP1027

Credit Points: 36 **Contact Hours:** 16 per week

■ RP1029 REPORTING 4

Refinement of students' shorthand and transcription skills and development of a stenograph shorthand speed to a minimum of 180wpm with transcription accuracy of 98 per cent.

Prerequisite: RP1028

Credit Points: 24 **Contact Hours:** 12 per week

■ RS4004 REFERENCE SERVICES & MATERIALS 2

Provision of reference and information services to students, teachers and administrators; development of students and teachers as autonomous finders of information; current trends in information storage and retrieval, such as online database searching; services beyond the school. Includes a compulsory study school.

Prerequisite: All Part A subjects

Credit Points: 10

■ RS4013 COLLECTION DEVELOPMENT FOR LEARNING

Principles and procedures involved in collection development in schools; the relationship between current curricula, learning theory, educational resources and ways of using them; issues affecting collections; the goals of particular collections.

Prerequisites: All Part A subjects

Credit Points: 10

■ RS4015 RESOURCES: SELECTION & USE

How to select library resources, including children's literature, matched to the needs and interests of children and teachers, and how to assist them in using

these materials in resource-based teaching and learning situations.

Credit Points: 9 **Contact Hours:** 4 per week

■ RS4016 REFERENCE SERVICES & MATERIALS 1

Familiarisation with a wide range of reference materials and the development of the ability to evaluate them critically; principles involved in the development, maintenance and use of an effective reference collection; preparation for undertaking a comprehensive range of user services in a school library.

Credit Points: 9 **Contact Hours:** 3 per week

■ RS4017 AUSTRALIAN LITERATURE FOR YOUNG PEOPLE

History to 1959; critical assessment of trends 1960-1980; visual representation and interpretation of Australian children's literature in books, film and display; criticism and review; the needs of K-12.

Credit Points: 9

■ RS4018 ISSUES IN LITERATURE FOR ADOLESCENTS

The literature written for adolescents; issues facing adults who are involved in the selection of such literature; strategies for the encouragement and promotion of reading amongst this age group. Incompatible with LI3701

Prerequisites: All Part A subjects

Credit Points: 9

■ RS4019 ISSUES IN LITERATURE FOR CHILDREN

Issues, genres and materials relevant to both contemporary children's literature and the historical background from which it evolved; the place of children's literature as a core component of children's reading programs; exploration of current trends and controversies. Incompatible with LI3701.

Prerequisites: All Part A subjects

Credit Points: 9

■ RS4020 STORYTELLING

History of storytelling; skills and techniques of storytelling; storytelling as a tool for teacher-librarians.

Credit Points: 10 **Contact Hours:** 3 per week

■ SB4902 SCHOOL STUDIES 1

Students undertake a range of activities which are functionally related to their University-based studies; activities are of three types: school study, class study and child study. Students also undertake a program of field studies competencies in first aid and school swimming.

Credit Points: 8 **Contact Hours:** 5 per week

■ SB4903 SCHOOL STUDIES 2

Students undertake a range of activities which are functionally related to their University-based studies; activities are of three types: school study, class study and child study. Students also have the opportunity to select an area of study that they identify within the educational context that will enrich their professional development.

Credit Points: 8 **Contact Hours:** 5 per week

■ SC2081 SCIENCE EDUCATION

Approaches to teaching primary science; processes in science; commercial curriculum materials; content in the conceptual areas of energy and matter; curriculum development.

Prerequisite: MA2089

Credit Points: 6 **Contact Hours:** 2 per week

■ SC2800 THE AUSTRALIAN ENVIRONMENT

Distinctive elements in Australian native flora and fauna; the geological and climatic history of the Australian continent; overview of evolution and evolutionary influences within the Australian context; Australian ecosystems with particular reference to Queensland; effects of Aboriginal and European settlement.

Credit Points: 5 **Contact Hours:** 2 per week

■ SC2801 ENVIRONMENTAL PHYSICAL SCIENCE

The composition and structure of the atmosphere; general principles of water chemistry; current methods of treatment of industrial and municipal waste water; the role of water in the generation of meteorological phenomena; problems related to the presence of toxic substances in the atmosphere, soil, water supply.

Credit Points: 5 **Contact Hours:** 2 per week

■ SC2807 AUSTRALIAN FLORA & FAUNA

Relationships in the biosphere; terminology related to the ecology of plants; evolution of Australian flora; the impact of introduced species; laboratory and field techniques; terminology and techniques of animal ecology; survival mechanisms; theories of the evolution of Australian fauna; applied ecological techniques.

Credit Points: 8 **Contact Hours:** 3 per week

■ SC2808 BOTANY OF AUSTRALIAN PLANTS

Relationships between plants; recognition of major groups; plant needs, preferences and tolerances with respect to the physical environment; consideration of how plants obtain, distribute and utilise nutrients and products of metabolic activity; flowering patterns; means of plant propagation; seed dispersal and conditions which favour weed production; common plant diseases, their causes and methods of control.

Credit Points: 8 **Contact Hours:** 3 per week

■ SC2809 ZOOLOGY OF SMALL DOMESTIC ANIMALS IN AUSTRALIA

Classification of major groups with particular reference to domestic animals; legal controls relating to domestic animals in Queensland; the keeping and feeding of animals; ethology and its link with evolution; reproductive biology; husbandry of small animals; common health problems.

Credit Points: 8 **Contact Hours:** 3 per week

■ SC2810 THE SCIENCE OF CHANGE

Scientific study of changes in systems of varying sizes and of different time scales eg, micro-organism populations in a small pond over a period of days; changes in Australian ecosystems over millions of years; changes in scientific methodology related to technological development during this century.

Credit Points: 8 **Contact Hours:** 3 per week

■ SC2811 EARTH & SPACE

The nature and behaviour of light; optical properties of various materials; construction and operation of instruments that rely on optical components; the role of earth-based instrumentation in extending knowledge of earth and space; production and observation of spectra; use of spectra as a tool of discovery in space science; observational astronomy.

Credit Points: 8 **Contact Hours:** 3 per week

■ SC2816 DISCOVERING SCIENCE

Practical investigation of basic scientific concepts; practice in skills in science and the application of scientific methods of investigation to problems in the laboratory and in the field.

Credit Points: 5 **Contact Hours:** 2 per week

■ SC3015 SCIENCE FOUNDATIONS

Major concepts in physical and inorganic chemistry as they relate to 'home economics' systems; conceptual framework for the chemistry of carbon compounds; application of concepts to an introductory study of more complex macromolecular structures in chemical and biological systems; fundamental concepts in physics-forces, energy, fluids, pressure, heat, temperature, electromagnetic radiation and electricity – as related to the study of home economics.

Credit Points: 10 **Contact Hours:** 6 per week

■ SC3016 SCIENCE, TECHNOLOGY & SOCIETY

The nature of science and technology; the sociological functioning of the scientific enterprise – its norms, values; the nature of scientific knowledge – objectivity and epistemological issues; the origins of modern science and technology; the future of science and technology.

Credit Points: 10 **Contact Hours:** 3 per week

■ SC3017 MARINE STUDIES

Ecological principles and ecology of the marine environments; biological and abiotic components of a variety of marine coastal ecosystems; sandy and rocky shores, mangroves, mud flats, estuaries and the Great Barrier Reef; oceanography; the ecology of coastal environments; the management and conservation of marine ecosystems; field studies.

Prerequisite: BI3012

Credit Points: 10 **Contact Hours:** 4 per week

■ SC3018 ORGANIC & BIOLOGICAL CHEMISTRY

The structure and properties of important classes of biomolecules using a functional group approach; the basic organic chemistry of these substances; reaction mechanisms; application of these principles to life processes; cellular metabolism and molecular genetics; theories relating to chemical and biological evolution.

Prerequisites: BI3012 and CH3006

Credit Points: 10 **Contact Hours:** 4 per week

■ SC3019 THE CHEMISTRY & PHYSICS OF THE ENVIRONMENT

The physical and chemical processes which affect our lithosphere, hydrosphere and atmosphere; energy sources; soil, water and air pollution; chemical and radioactive wastes; toxins; household and farm chemicals.

Prerequisite: CH3005

Credit Points: 10 **Contact Hours:** 4 per week

■ SC3020 THE PHYSICAL UNIVERSE

Application of physical principles and remote sensing techniques to studies of the structure and composition of the Earth, Solar System and the Universe; sensors include those which detect, measure or record physical variables (temperature, etc); waves (seismometers and sonar); force fields (magnetometers, gravimeters); electromagnetic radiation (telescopes, astrophotography, photometry, spectrography); radioactivity (radioactive dating); the role of satellites

in remote sensing, weather forecasting and space research.

Prerequisites: ER3002 and ER3003

Credit Points: 10 **Contact Hours:** 4 per week

■ SC3032 PRIMARY SCIENCE CURRICULUM DEVELOPMENT

The nature of science; the purpose of teaching science in primary school; consideration of those areas of science and teaching strategies particularly suitable to the primary school; the structure and rationale of the Queensland Primary Science syllabus; the philosophy and structure of selected commercial science curriculum materials; the development of primary science subjects.

Prerequisite: CU3040

Credit Points: 12 **Contact Hours:** 3 per week

■ SE3710 NON-TRADITIONAL CLASSROOM MANAGEMENT

Application of learning principles to the management of behaviour problems; application of social psychology research to the management of behaviour; application of parenting programs to the management of behaviour in the school.

Prerequisite: Relevant studies at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ SE3711 PSYCHOSOCIAL FOUNDATIONS OF HANDICAP

Development of skill in teaching children with handicapping conditions other than those already studied; psychological and sociological implications of handicapping conditions as these relate to the design and implementation of appropriate educational programs. Incompatible with Diploma of Teaching and Graduate Diploma in Teaching subjects in the area of exceptionality chosen.

Prerequisite: Studies in special education

Credit Points: 12 **Contact Hours:** 3 per week

■ SK3701 ADVANCED SECRETARIAL STUDIES

The role of the administrative secretary; secretarial procedures; office systems; office supervision; technology and the administrative secretary. Incompatible with degree or higher qualification in secretarial studies.

Prerequisite: Diploma of Teaching with major in commercial studies or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ SK4015 SKILLS FOR OFFICE AUTOMATION

Development of keyboard skills using microcomputers; introduction to basic word processing and text editing techniques covering a range of typewritten business communications (correspondence, reports, tabulations).

Credit Points: 12 **Contact Hours:** 4 per week

■ SK4016 OFFICE AUTOMATION & ADMINISTRATION

Introduction to the concepts and practice of office automation with emphasis on advanced techniques of computerised text generation and editing using the word processor; office style integrated projects; implications for administrators of the introduction of computer-based technology into the office and implementation of appropriate procedures.

Prerequisite: SK4015 or demonstrated keyboard competence

Credit Points: 12 **Contact Hours:** 4 per week

■ SK4017 OFFICE ADMINISTRATION ASSIGNMENTS

Development of advanced production techniques; office style integrated projects with emphasis on a problem-solving approach covering a variety of business communications utilising the most appropriate technology.

Prerequisites: AD4010 and SK4015

Credit Points: 12 **Contact Hours:** 6 per week

■ SS2026 AUSTRALIAN CITIZENSHIP

Legal and political studies; the problems of law, such as assets and judicial procedure; the teacher and the law; aspects of politics and government in contemporary Australia.

Credit Points: 10 **Contact Hours:** 3 per week

■ SS2038 ABORIGINAL CULTURE STUDIES

Overview of hunter-gatherer societies, examining how lifestyles and beliefs provided for the material and spiritual needs of their members; traditional Aboriginal society (economy, socio-economic groups, religion, laws, the life cycle, significance of art); comparison of the values of the traditional Aboriginal society, of urban Aborigines and of western society; contemporary issues including health, housing, education, self-determination, identity.

Credit Points: 10 **Contact Hours:** 3 per week

■ SS2046 ABORIGINES & TORRES STRAIT ISLANDERS

Early human occupation in Australia; reading archaeological evidence; traditional Aboriginal and Torres Strait Islander society from an Aboriginal and Islander perspective; interaction with Anglo-Australians; contemporary issues relevant to Aboriginal and Torres Strait Islander culture and identity.

Credit Points: 5 **Contact Hours:** 2 per week

■ SS2053 FOUNDATIONS IN THE HUMANITIES

Structures, concepts and strategies in the humanities with special references to social sciences and language arts; the humanities in the classroom; elements of curriculum planning; preparation of modules in the humanities.

Credit Points: 14 **Contact Hours:** 6 per week

■ SS2054 SOCIAL STUDIES EDUCATION

Approaches to primary social studies teaching; processes fundamental to primary social studies teaching: cognitive, affective, psychomotor, evaluative; question sequences, lesson sequences, unit planning.

Prerequisite: SS2053

Credit Points: 6 **Contact Hours:** 2 per week

■ SS2055 THE NATURAL & SOCIAL WORLD

Identifying and establishing the content area; identifying and evaluating modes of inquiry; approaches to curriculum development; curriculum program development.

Credit Points: 8 **Contact Hours:** 3 per week

■ SS2805 INTRODUCTION TO THE SOCIAL SCIENCES

Contemporary issues in Australian society including ecology and the environment, poverty and underdevelopment, human rights, multicultural Australia; various approaches and methods used by social scientists in cognitive and values inquiry.

Credit Points: 5 **Contact Hours:** 2 per week

■ SS2809 CULTURAL & REGIONAL STUDIES 1

Culture through the study of human behaviour in an historical, anthropological and geographical setting; development of social science skills; awareness of the meaning of culture; specialisation in one of the following areas: South East Asian history; culture contact in the nineteenth century Pacific; contact and culture in nineteenth century Queensland; human and physical geography.

Credit Points: 8 **Contact Hours:** 3 per week

■ SS2810 CULTURAL & REGIONAL STUDIES 2

Continuation of SS2809. Specialisation in one of the following areas: Indonesian history and culture; contemporary issues in the Pacific; Australia in the twentieth century; human and environmental geography.

Credit Points: 8 **Contact Hours:** 3 per week

■ SS3025 CONTEMPORARY SOCIAL SCIENCE

Introduction to the nature of sociology and psychology; social image; social control; deviance; environmental planning and human behaviour; family patterns; gender roles and relationships; work and unemployment.

Credit Points: 10 **Contact Hours:** 4 per week

■ SS3037 SOCIAL EDUCATION: CURRICULUM DEVELOPMENT

Curriculum movements in social education; planning, implementing and evaluating a teaching unit; curriculum development projects in social education; curriculum design and evaluation.

Prerequisite: CU3040 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ SS3038 SOCIAL EDUCATION IN THE CURRICULUM

The nature and purpose of social education; the current state of social education; competing models; social education and the learner; instructional techniques; preparation of a rationale for a particular program; implementation strategies.

Prerequisite: CU3040 or equivalent

Credit Points: 12 **Contact Hours:** 3 per week

■ SS3035 MODERN EUROPEAN STUDIES

Major aspects of the physical geography of Europe; population factors; political institutions and movements; economic activities and institutions; relationships with the rest of the world; current ecological issues; current social issues; political interactions and movements; ecological issues; social issues.

Credit Points: 10 **Contact Hours:** 3 per week

■ SS3036 EUROPEAN CULTURAL HISTORY

The development of European civilisation from its origins in Greece and Rome; the spread and influence of Christianity; the fall of Rome and the Barbarian invasions; the Middle Ages and the Renaissance; cultural and artistic achievements which find expression in literature, art, music, and architecture; the importance of Renaissance Italy on the whole of European culture; the emergence of the great European powers and the development of national thought in the seventeenth and eighteenth centuries; Romantic period and the significance of the French Revolution; the industrial age, the growth of liberalism and literary and artistic achievements until World War I; developments in the modern age.

Credit Points: 10 **Contact Hours:** 3 per week

■ SS3040 LOCAL COMMUNITY

The importance of the local community in relation to broader issues of Australian and global citizenship; the sources of data available for local community studies and methods of collating, analysing, synthesising and evaluating data on local communities; the nature of local communities; the problems and issues facing them; the interrelationship between the local community and broader community groups.

Credit Points: 10 **Contact Hours:** 3 per week

■ SS3041 INTRODUCTION TO THE SOCIAL SCIENCES

Principles theories and procedures of the social sciences; problematic nature of evidence and data used by social scientists; the value base of social science knowledge and inquiry.

Credit Points: 10 **Contact Hours:** 3 per week

■ SS3042 ABORIGINAL CULTURE STUDIES

Concepts of culture; Aboriginal and Torres Strait Islander culture: laws, religions, philosophy, social structure, material culture, artistic expression; alternative social stratification, behaviours and values; ritual and ceremonial life, their aspects and importance; contemporary socio-political issues, land rights, health, education, employment and expression.

Credit Points: 10 **Contact Hours:** 3 per week

■ SS3043 AUSTRALIA & THIRD WORLD ISSUES

The Third World and Australia; the nature of world poverty; myths surrounding overpopulation; the causes of world hunger; life in 'shanty towns'; the relationship between the arms race and underdevelopment; approaches to development based on self-reliance and global interdependence.

Credit Points: 10 **Contact Hours:** 3 per week

■ SS3044 AUSTRALIAN CITIZENSHIP

Concepts and values which serve as an analytical and explanatory context for studies of Australian society; the major institutions of society, including government at all levels, economic institutions, organisations of employers and workers, extra-parliamentary political groups.

Credit Points: 10 **Contact Hours:** 3 per week

■ SS3045 CONTEMPORARY GLOBAL ISSUES

The world economic system; nation states and self-determination; the causes of conflict and the maintenance of peace; international human rights; the ecological crisis; sustainable development; the role of the United Nations System and non-government groups.

Credit Points: 10 **Contact Hours:** 3 per week

■ SS3046 SOCIAL SCIENCE SEMINAR 1

The following are examples of topics which could provide the study focus for this subject: philosophies of the social sciences; world systems theory; Pacific Basin studies; Marxism and the social sciences; global studies, development studies; environmental studies; the use of conceptual models in the social sciences.

Credit Points: 10 **Contact Hours:** 3 per week

■ SS3047 SOCIAL SCIENCE SEMINAR 2

See SS3046.

Credit Points: 10 **Contact Hours:** 3 per week

■ SS3048 CONSUMERISM

The nature of the consumer society and the values underlying it; consumer sovereignty – reality or myth?; the structures and institutions promoting,

maintaining and sustaining the consumer society; the implications of consumer society – a consideration of the benefits and costs; visions of a 'new' consumer society; what needs to be done?; alternative visions to the consumer society.

Credit Points: 10 **Contact Hours:** 3 per week

■ SS3803 PATTERNS & PROCESSES OF DEVELOPMENT

Global patterns and inequalities in development; the cause of global development inequalities; their consequences and alternative approaches to solutions.

Credit Points: 12 **Contact Hours:** 3 per week

■ SS3804 ENVIRONMENTAL EDUCATION

Nature of environmental education; ecosystems and environment; human impact and resource use; exploitation and management; development of field, research and planning skills; curriculum applications. Incompatible with extensive studies in outdoor or environmental education.

Credit Points: 12 **Contact Hours:** 3 per week

■ SS4002 STUDIES IN THE NATURAL & SOCIAL WORLD 1

Commonalities and differences in contributing disciplines (health, science, social studies); planning a learning module for a small group of pupils; modelling a learning module for a larger group of pupils; modelling of a learning module which considers the organisation of 'small group tasks' within the total class setting.

Credit Points: 8 **Contact Hours:** 3 per week

■ SS4003 STUDIES IN THE NATURAL & SOCIAL WORLD 2

Analysis of the nature of each of the contributing disciplines (health, science, social studies); the role of the contributing disciplines within the framework of the total curriculum; the organisation of content/processes/evaluation within and across the disciplines; analysis of learning resources and their application; development of extended and integrated learning programs.

Credit Points: 4 **Contact Hours:** 1 per week

■ ST1011 QUANTITATIVE METHODS

Applications of mathematics in business; exponential and logarithmic functions; interest calculations; annuities; sinking funds; depreciation; descriptive statistics; probability; graphical techniques; linear regression and correlation.

Credit Points: 12 **Contact Hours:** 4 per week

■ ST1012 RESEARCH METHODS

Logic and argument; descriptive statistics – collection, presentation and analysis of data; price index numbers; introduction to computers.

Credit Points: 12 **Contact Hours:** 4 per week

■ SU2801 SCULPTURE 1

Development of conceptual expression through three-dimensional materials: clay, metal, leather and wood.

Credit Points: 10 **Contact Hours:** 4 per week

■ SU2802 SCULPTURE 2

Developing a more expressive approach to sculpture, building on the techniques gained in SU2801 and further applied design studies.

Prerequisite: SU2801

Credit Points: 10 **Contact Hours:** 3 per week

■ SY3013 AUSTRALIAN SOCIETY & IDENTITY

Images of the typical Australian; omissions/absences from the cultural stereotype; omissions from the notion of identity; critical analysis of contemporary Australian society; the role of the media in social and cultural reproduction; who are the 'real' Australians?

Credit Points: 10 **Contact Hours:** 3 per week

■ SY3014 AUSTRALIAN CULTURE IN A WORLD CONTEXT

The nature of post-industrial society; global economic effects of industrialism and post-industrialism; environmental effects of industrial and post-industrial production; technology and mass culture; current responses to global problems.

Credit Points: 10 **Contact Hours:** 3 per week

■ SY3015 YOUTH IN CONTEMPORARY SOCIETY

The relationship between structural economic change and the genesis and extension of youth; an introduction to the issues of: youth sub-cultures; work and unemployment; health, housing and poverty; the law and the policing of the young; education; and the impact of public policy.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ SY3016 LANGUAGE & POWER

Language as a social and cultural phenomenon; sociolinguistics; ethnicity, class and language; 'man made' language; language and power; concept of cultural capital. Educational implications: language and learning; literacy and learning; bilingual/bicultural programs.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ SY3017 RACE & ETHNIC RELATIONS

A comparative study of a number of different societies, including Australia, to identify and analyse sources of ethnic and racial minority status; historical roots; political and economic context; political struggles, civil disobedience; revolutions; role of education; strategies for change.

Prerequisite: SY3013

Credit Points: 10 **Contact Hours:** 3 per week

■ SY3020 UNDERSTANDING 'THE SYSTEM'

Bureaucracies and how they operate; teaching and bureaucracies; the contradictory demands of bureaucracies and professionalism.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ SY3023 PEACE STUDIES

Peace as a personal issue and as a political issue; analysis of the human response as seen in the social sciences; peace as an alternative to the arms race, racial conflict and destruction of the environment; conflict resolution; its dilemmas and possible strategies; social change through violent and non-violent means.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective

Credit Points: 10 **Contact Hours:** 3 per week

■ SY3024 TECHNOLOGY, THE ENVIRONMENT & MORAL DILEMMAS

Technology in society; technology, work and unemployment; the peril and promise of technology; introductory theoretical consideration of social ethics; case study examination of issues such as: information technology, nuclear energy, technology and work, overpopulation, nuclear weapons, genetic engineering, medical technology, environmentalism, alternative futures. Technocratic mindedness vs. critical mindedness. The dilemmas raised by these concerns for educators and professionals generally are examined eg, the computer and the classroom, technology and the curriculum.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective
Credit Points: 10 **Contact Hours:** 3 per week

■ SY3025 SOCIOLOGY OF THE FAMILY

Definitions of the family; the family and society; social class and geographical differences in family patterns; influence of changing social conditions; socialisation and child rearing patterns; families in a multicultural society.

Prerequisite: SS3025
Credit Points: 10 **Contact Hours:** 3 per week

■ SY3026 CHILDREN'S CULTURE

The history of childhood and theorising about childhood; race, gender and class variants on these issues; Christian versus romantic conceptions of childhood; the representation of childhood in painting, music, philosophy, literature; the social control of childhood to folk and fairy tales; the scientisation of childhood through psychology; the culture of children's games, plays, skipping rhymes, songs; the future of childhood.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective
Credit Points: 10 **Contact Hours:** 3 per week

■ SY3028 DISCIPLINE & PUNISHMENT

Sociological approaches to student disruption and resistance; theories of causality; the links between student deviance and aspects of schooling, and the possibilities of change in school structures and teacher practices.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective
Credit Points: 8 **Contact Hours:** 2 per week

■ SY3030 GENDER & SCHOOLING

The educational situation of girls and women: schooling for women's work; special needs of different groups of girls; gender differences in planned and hidden curriculum; single-sex and coeducation; current initiatives; practices enabling teachers and other youth workers to promote gender equity.

Prerequisites: SY3013, SY3014, ED3053 and any 3rd year education elective
Credit Points: 8 **Contact Hours:** 3 per week

■ SY3034 FAMILIES & SOCIETY

Issues which relate to the family in Australia; history of the family; evolution of contemporary family structures; the interrelationship between family and society; the changing roles of men and women; sex stereotyping; violence; child abuse; family breakdown; multicultural values as they affect Australian family life.

Prerequisite: DY3031
Credit Points: 10 **Contact Hours:** 4 per week

■ SY3035 FAMILIES IN OTHER CULTURES

Individuals, the structured elements within families and the relationship of families to society; kinship, family structures, mate selection practices, legitimacy and illegitimacy, contemporary issues that relate to family groups.

Credit Points: 10 **Contact Hours:** 4 per week

■ SY3303 SOCIETY, SOCIAL POLICY & EDUCATION

Social policy in education; implications for social policy of change in society; the economics of education; social policy and the teacher.

Co/Prerequisite: ED3303 or equivalent
Credit Points: 12 **Contact Hours:** 3 per week

■ SY3304 SOCIOLOGY OF THE SCHOOL

Sociological views of schooling; clarifying tasks, structures and relationships of schools and classrooms; the consequences of these for both teachers and pupils.

Co/Prerequisite: ED3303 or equivalent
Credit Points: 12 **Contact Hours:** 3 per week

■ SY3305 SOCIOLOGY OF EDUCATION

The nature and scope of sociology; sociology and education; the cultural context of educational institutions and teaching; sub-cultures in the school and their interaction; appropriateness of education to modern Australian society.

Credit Points: 12 **Contact Hours:** 3 per week

■ SY3701 STUDIES IN ALCOHOL & OTHER DRUGS

Epidemiology of drug use and misuse; effects of drug taking; socio-cultural influences on drinking behaviour; the nature of dependency; community attitudes and strategies for prevention; occupational programs.

Prerequisite: Studies in social sciences at Diploma of Teaching level
Credit Points: 12 **Contact Hours:** 3 per week

■ SY3803 CAREER & LIFE PATTERNS OF WOMEN TEACHERS

Theories of adult development; career development theories; transitions and crises; trends in career development and their implications for women teachers; additional knowledge and skills which women teachers may need for planning future and professional roles.

Credit Points: 12 **Contact Hours:** 3 per week

■ SY3804 SOCIAL CHANGE & WOMEN IN AUSTRALIA

Policy initiatives relating to women; current debates on the status of women; ideology and the position of women; effects of economic recession and technological change; educational implications.

Credit Points: 12 **Contact Hours:** 3 per week

■ TE2800 FIBRE ARTS

The variety and scope of materials and processes used in textile arts; study of contemporary and past works; dyeing; fibre constructions (spinning, weaving, other construction techniques); or surface decoration (block printing, mono printing, fabric printing, screen printing, embroidery).

Credit Points: 5 **Contact Hours:** 2 per week

■ TE2801 TEXTILE STUDIES 1

Introduction to the preparation of fibres and yarns and to the study of a range of textile structures. Practical work in selected areas.

Credit Points: 8 **Contact Hours:** 3 per week

■ TE2802 TEXTILE STUDIES 2

Analysis of the aesthetic principles underlying the production of contemporary textiles and the study of cultural influences on textile artists. Practical work in dyeing, spinning and weaving.

Prerequisite: TE2801

Credit Points: 8 **Contact Hours:** 3 per week

■ TE2805 TEXTILES

Further development of fibre techniques in spinning, weaving and dyeing, working towards both functional and 'fine art' products.

Credit Points: 10 **Contact Hours:** 4 per week

■ TE3701 WOVEN TEXTILES

History of textiles in America, Europe, Australia, New Zealand and the Orient; aesthetics related to fibre and materials; textile design; practical work in dyeing, spinning and weaving; design work; study of one weaving technique.

Credit Points: 12 **Contact Hours:** 3 per week

■ TE3801 TEXTILES: FUNCTION & DESIGN

Practical application of designs; historical perspectives with emphasis on Greek, Indian, English, Japanese, Javanese and American influences; yarn construction; fabric construction; fabric finishes; fabric testing; the textile industry; nature of colour and colour formation.

Credit Points: 12 **Contact Hours:** 3 per week

■ TE4002 FIBRE ARTS 1

Investigation of both historical and contemporary textile media; development of technical and conceptual textile knowledge; utilisation of fibre/textile materials and processes to develop both 2-D and 3-D textile artifacts/objects; the relationship between textile arts and selected cultures; particularly in relation to fashion design, individual development of design, construction and decoration techniques and textile imagery.

Credit Points: 12 **Contact Hours:** 3 per week

■ TE4003 FIBRE ARTS 2

Continuation of TE4002. Nature of fibres; fibre construction; printing techniques suitable for fibre arts; embellishing fibre surfaces.

Credit Points: 12 **Contact Hours:** 3 per week

■ TS2906 STUDIES IN TEACHING 1

Analysis of the teaching and learning environment; communication at individual and group level; personal and professional planning; basic teaching skills; self-analysis of teaching skills.

Credit Points: 5 **Contact Hours:** 3 per week

■ TS2907 STUDIES IN TEACHING 2

Use of teaching skills to achieve instructional objectives; assessment, evaluation and measurement of pupil learning; identification, selection and evaluation of resources for facilitating learning.

Co/Prerequisite: TS2906

Credit Points: 5 **Contact Hours:** 3 per week

■ TS2908 STUDIES IN TEACHING 3

Workshop safety; placement of facilities; storage and display of equipment; beginning and ending a practical class; standards of care, workmanship and behaviour; management; learning styles (creative, acceptance/anxious, rigid/inhibited, undisciplined); basic patterns of grouping for use in the classroom; formats for individualising learning.

Co/Prerequisite: TS2907

Credit Points: 5 **Contact Hours:** 3 per week

■ TS2909 STUDIES IN TEACHING 4

Curriculum development as a participatory decision-making process; interpersonal relationships with colleagues, administrators and parents; the curriculum-related needs of the beginning teacher; analysis of beginning teaching and the development of strategies to ease the transition into teaching.

Co/Prerequisite: TS2908

Credit Points: 5 **Contact Hours:** 3 per week

■ TS3003 THE BEGINNING TEACHER

There are six components in this subject: socialisation into teaching; the work context of teaching; teachers and their strategies; promoting a positive and effective learning environment; developing an action plan; practice teaching.

Co-requisites: CU3009 and CU3010

Prerequisites: CU3005, CU3006, CU3007 and CU3008

Credit Points: 20

■ TS3604 CLASSROOM MANAGEMENT: MODELS & PRACTICE

Concepts and variables associated with classroom management and control; student and teacher perceptions of classroom contexts and behaviour problems; contemporary views of classroom management and discipline; developmental theories of classroom and behaviour management; teaching for professional integration and self-actualisation.

Credit Points: 12 **Contact Hours:** 3 per week

■ TS3605 PERSPECTIVES ON EDUCATIONAL TECHNOLOGY

Current perspectives on educational technology; development of a theoretical and research basis; the media of instruction; application of educational technology; significant modern manifestations of educational technology; future directions. External students need access to a video recorder. Incompatible with degree or graduate diploma studies in educational technology or media; ME4007.

Prerequisite: Relevant studies at Diploma of Teaching level

Credit Points: 12 **Contact Hours:** 3 per week

■ TS3606 TEACHERS & ISOLATED LEARNERS

The isolated community; the isolated learner; consideration of various types of teaching situations; teaching strategies; support services.

Credit Points: 12 **Contact Hours:** 3 per week

■ TS3607 TEACHING STRATEGIES

Evaluation of the student's own teaching strategies; examination of the literature on teaching strategies; critical evaluation of strategies/models of teaching available.

Credit Points: 12 **Contact Hours:** 3 per week

■ TX3000 TEXTILES 1

The scientific understanding and aesthetic aspects of textiles and their selection, use and care, with reference to specific end uses; practical aspects of construction and surface design of textile articles; textile project.

Prerequisites: HS3015 and SC3015

Credit Points: 10 **Contact Hours:** 6 per week

■ TX3001 TEXTILES 2

Extension of TX3000.

Prerequisite: TX3000

Credit Points: 10 **Contact Hours:** 6 per week

■ TX3002 TEXTILES: SUPERVISED PROJECT

Students select and complete an indepth study in one or more methods of creating with textiles. The study will include the development of advanced skills in the technique(s) and an investigation and evaluation of the corresponding commercial production.

Prerequisite: TX3000

Credit Points: 10 **Contact Hours:** 3 per week

■ TX3003 CONSUMER TEXTILES

Technological advances in the production of textiles with particular reference to fibres, yarns, fabric, finishing and dyeing; significant technological advances in the manufacture of the major textile products such as apparel, household textiles, furnishings and floor coverings; textile performance requirements of these major consumer textile end-uses; experimental evaluation of textiles for suitability of purpose; development of problem identification and solution skills in consumer textiles through a major project-based assignment.

Prerequisite: TX3001

Credit Points: 10 **Contact Hours:** 6 per week

■ TX3026 APPAREL DESIGN

Factors influencing garment and household goods designs; design development; yarn structure; techniques of fabric construction and decoration; the textile industry.

Credit Points: 10 **Contact Hours:** 6 per week

■ TX3028 TEXTILE SCIENCE

Overview of textiles and textile evaluation; fibres; yarns; fabric construction; finishing treatments; colour and its application to textiles; textile care; textile end-use; principles and practice of textile performance evaluation.

Prerequisite: CH3025

Credit Points: 9 **Contact Hours:** 4 per week

■ TX3029 TEXTILE MARKETING

Theories of clothing consumption; factors affecting individual and family clothing expenditure; standard sizing; pattern styling techniques; preparation of a brief.

Prerequisite: TX3026

Credit Points: 8 **Contact Hours:** 4 per week

